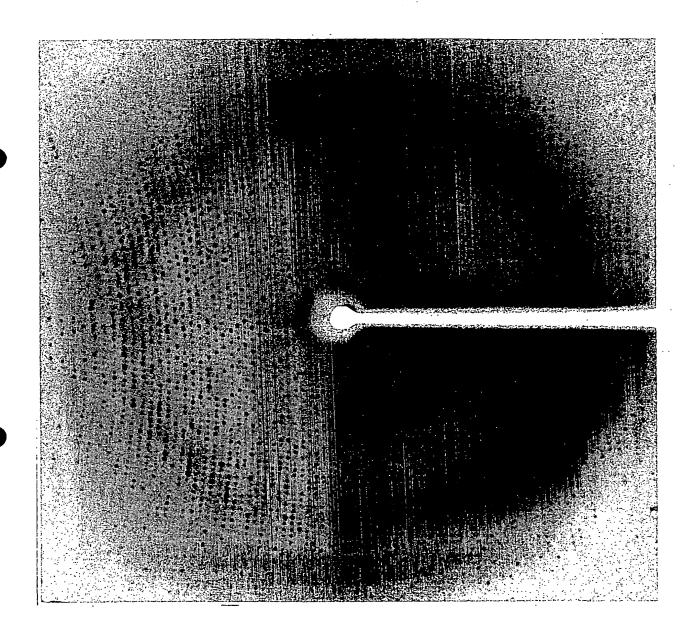
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# FIG. 1

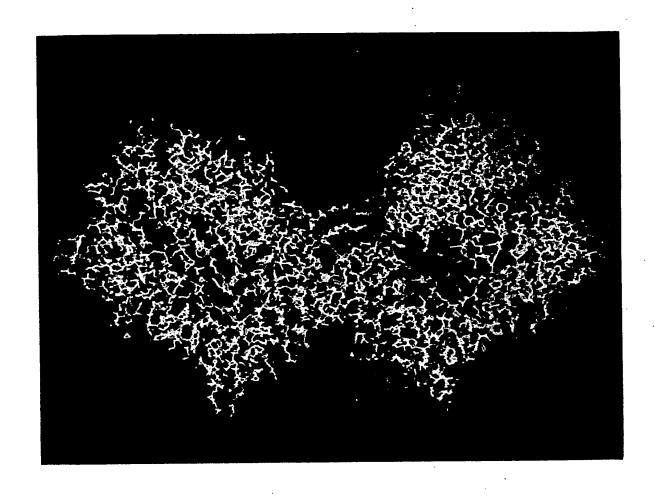


**FIG. 2** 



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FIG. 3



C

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FIG. 4-1

Three-dimensional structural coordinate of dipeptidyl peptidase IV 38 **ATOM** CB **ASP** 44.493 31.885 58.927 1.00 42.46 1 A **ASP** C **ATOM** 2 CG 38 44.146 32.095 57.467 1.00 42.00 33.198 **ATOM** 3 OD1 ASP 38 43.664 57.133 1.00 42.55 Α 0 **ATOM** 4 38 44.360 31.171 56.655 OD2 ASP 1.00 40.85 0 A **ATOM** 5 C **ASP** 38 45.876 29.805 58.634 1.00 41.68 C Α **ATOM** 6 38 46.980 58.778 **ASP** 30.327 1.00 42.02 0 Α 0 7 60.778 **ATOM** N ASP 38 44.758 30.264 1.00 42.88 N A 8 **ATOM** CA **ASP** 38 59.296 C 44.639 30.404 1.00 42.51 Α 39 45.679 57.905 **ATOM** 9 N SER 28.711 1.00 40.69 Α N **ATOM** 10 CA 39 46.775 28.013 57.241 1.00 39.98 C **SER** Α **ATOM** 11 SER 39 46.584 26.501 57.380 C CB 1.00 40.43 Α **ATOM** 12 39 45.410 26.079 56.703 0G SER 1.00 41.11 0 Α ATOM 13 39 1.00 39.60 C C 46.960 28.343 55.763 SER A ATOM 14 0 **SER** 39 47.870 27.813 55.123 1.00 39.66 Α 0 **ATOM** 15 N **ARG** 40 46.093 29.190 55.217 1.00 38.12 N A 16 46.194 **ATOM** CA 29.575 53.810 1.00 37.02 ARG 40 C Α **ATOM** 17 CB **ARG** 40 45.082 30.558 53.439 C 1.00 36.96 Α **ATOM** 18 CG ARG 40 43.683 29.984 53.404 1.00 35.97 A · C **ATOM** 19 CD **ARG** 42.688 31.098 53.137 1.00 34.97 C 40 Α **ATOM** 20 NE 1.00 35.27 ARG 40 42.774 32.134 54.161 N Α **ATOM** 21 CZ**ARG** 40 42.097 33.276 54.125 1.00 35.55 Α C 33.528 **ATOM** 22 NH1 ARG 40 41.280 53.111 1.00 35.54 A N **ATOM** 23 NH2 ARG 42.239 40 34.167 55.097 1.00 34.68 N Α **ATOM** 24 C ARG 40 47.530 30.251 53.531 1.00 35.91 A C **ATOM** 25 48.100 54.407 0 **ARG** 40 30.901 1.00 34.18 0 Α **ATOM** 26 N LYS 41 48.031 30.100 52.310 1.00 35.43 Α N **ATOM** 27 CA LYS 41 49.286 30.749 51.937 1.00 34.97 C A **ATOM** 28 CB LYS 49.705 30.338 50.525 1.00 35.73 41 C Α **ATOM** 29 CG LYS 41 48.684 30.719 49.467 1.00 38.56 C Α **ATOM** 30 LYS CD 41 49.026 30.151 48.096 1.00 42.36  $\mathbb{C}$ Α **ATOM** 31 CE LYS 41 47.805 30.201 47.173 1.00 45.55 C Α **ATOM** 32 NZ LYS 48.070 29.686 45.791 1.00 47.41 41 Α N **ATOM** 33 C LYS 49.038 32.257 41 51.957 1.00 33.41 A C **ATOM** 34 0 LYS 47.891 32.715 51.981 1.00 33.24 41 0 Α N **ATOM** 35 THR 42 50.110 33.032 51.954 1.00 31.47 Α N **ATOM** 36 CA 34.479 THR 42 49.967 51.937 1.00 30.04 C Α **ATOM** 37 CB THR 42 50.860 35.139 53.000 1.00 31.23 C Α **ATOM** 38 OG1 THR 42 52.725 52.234 34.843 1.00 30.79 A 0 39 42 **ATOM** CG2 THR 34.622 50.501 54.386 1.00 30.12 A C **ATOM** 40 C THR 42 50.389 34.971 50.558 1.00 28.34 A C **ATOM** 41 0 THR 42 50.977 34.220 49.782 1.00 27.76 Α 0 **ATOM** 42 N 43 **TYR** 36.217 50.058 50.234 1.00 27.55 N Α ATOM 43 CA TYR 43 36.782 48.954 50.465 1.00 25.72 Α C **ATOM** 43 44 CB **TYR** 49.615 38.006 48.623 1.00 26.01  $\mathbb{C}$ A **ATOM** 45 CG **TYR** 43 38.625 47.280 1.00 26.92 C 49.922 Α CD1 TYR **ATOM** 46 43 50.977 39.527 47.130 1.00 26.68 C Α **ATOM** CE1 TYR 1.00 27.02 47 43 51.253 45.895 C 40.113 Α CD2 TYR **ATOM** 48 43 49.152 38.315 1.00 26.40

46.158

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(Continued)

				FΙ	G. 4	- 2			COII
ATOM	49	CE2 TYR	43	49. 424	38. 891	44.919	1.00 25.89	A	Ċ
ATOM	50	CZ TYR	43	50.473	39.790	44.796	1.00 25.91	A	C
ATOM	51	OH TYR	43	50. 741	40.370	43. 579	1.00 25.09	A	0
ATOM	52	C TYR	43	51.933	37. 165	49.160	1.00 24.97	A	C
ATOM	53	O TYR	43	52. 251	38.049	49.955	1.00 23.33	A	0
ATOM	54	n thr	44	52.818	36.482	48. 444	1.00 24.06	A	N
ATOM	55	CA THR	44	54. 255	36. 685	48. 580	1.00 25.90	A	C
ATOM	56	CB THR	44	54.960	35. 336	48. 547	1.00 25.86	A	C
ATOM	57	OG1 THR	44	54.696	34. 709	47. 285	1.00 28.12	A	0
ATOM	58	CG2 THR	44	54. 439	34. 436	49.655	1.00 22.61	A A	C
ATOM	59	C THR	44	54.917	37. 576	47.530	1.00 27.35 1.00 29.11	A	0
ATOM	60	O THR	44	54. 296	37. 956 37. 894	46.535 47.765	1.00 25.11	A	N
ATOM	61	N LEU	<b>45</b>	56. 191	38. 722	46.853	1.00 21.33	A	Č
ATOM	62	CA LEU	45 45	56. 978 58. 377	38. 954	47. 425	1.00 26.43	A	č
ATOM	63	CB LEU CG LEU	45 45	59. 310	39. 860	46.612	1.00 26.21	Ä	č
ATOM	64 65	CD1 LEU	45	58. 734	41. 263	46.517	1.00 25.53	A	Č
ATOM ATOM	66	CD1 LEU	45	60. 672	39. 896	47. 266	1.00 24.37	Ā	Č
ATOM	67	CDZ LEU	45	57. 088	38. 069	45. 473	1.00 27.00	Α	С
ATOM	68	O LEU	45	56. 939	38. 740	44.449	1.00 27.84	Α	0
ATOM	69	N THR	46	57. 354	36.766	45.445	1.00 26.70	Α	N
ATOM	70	CA THR	46	57. 448	36.038	44. 182	1.00 26.95	Α	C
ATOM	71	CB THR	46	57. 838	34.559	44.407	1.00 26.87	Α	C
ATOM	72	OG1 THR	46	59. 150	34. 495	44.966	1.00 31.74	A	0
ATOM	73	CG2 THR	46	57. 833	33. 793	43. 110	1.00 28.08	A	C
ATOM	74	C THR	46	56.076	36.091	43. 517	1.00 26.96	A	C
ATOM	75	O THR	46	55.965	36.094	42. 289	1.00 25.36	A	0
ATOM	76	N ASP	47	55. 035	36. 126	44. 346	1.00 27.72	A	N C
ATOM	77	CA ASP	47	53.659	36. 199	43. 858 45. 026	1.00 29.74 1.00 30.90	A A	Č
ATOM	78 70	CB ASP	47 47	52. 670 52. 289	36. 173 34. 769	45. 430	1.00 30.62	A	C
ATOM	79	CG ASP OD1 ASP	47 47	51.778	34. 595	46. 553	1.00 30.02	Ä	ő
ATOM ATOM	80 81	ODI ASP	47	52. 490	33. 845	44.617		Ä	ő
ATOM	82	C ASP	47	53. 477	37. 482	43. 073	1.00 28.87	, A	Č
ATOM	83	O ASP	47	52. 918	37. 478	41.979	1.00 29.50	A	Ŏ
ATOM	84	N TYR	48	53. 945	38. 581	43. 648	1.00 28.54	A	N
ATOM	85	CA TYR	48	53. 859	39.878	42.994	1.00 29.04	Α	С
ATOM	86	CB TYR	48	54. 191	40.991	43.996	1.00 27.50	Α	С
ATOM	87	CG TYR	48	54. 448	42.333	43.354	1.00 25.16	Α	С
ATOM	88	CD1 TYR	48	53.460	42.971	42.609	1.00 23.19	A	C
ATOM	89	CE1 TYR	48	53. 703	44. 184	41.982	1.00 24.84	A	C
ATOM	90	CD2 TYR	48	55.694	42.946	43. 461	1.00 25.89	A	C
ATOM	91	CE2 TYR	48	55. 956	44. 165	42.838	1.00 26.76	A	C
ATOM	92	CZ TYR	48	54. 955	44. 779	42.096	1.00 27.28	A	C
ATOM	93	OH TYR	48	55. 208		41.463	1.00 25.97	A	0 C
ATOM	94	C TYR	48	54. 820		41.796	1.00 28.80 1.00 28.24	A A	0
MOTA	95 06	O TYR	48	54. 445		40. 714 41. 988	1.00 28.24	A	N
ATOM	96 97	N LEU	49 40	56.054		40. 918	1.00 23.41	A	C
ATOM	97	CA LEU	49	57.046	JJ. JJ4	70. 310	1.00 00.03	11	·

					FΙ	G. 4	- 3			(Continued)
ATOM	98	СВ	LEU	49	58. 455	39. 318	41.481	1.00 27.73	Α	С
ATOM	99	CG	LEU	49	58. 988	40.473	42. 336	1.00 28.28	A	Č
ATOM	100		LEU	49	60. 438	40. 223	42.711	1.00 26.99	A	Č
ATOM	101		LEU	49	58. 860	41.773	41.555	1.00 26.02	Ä	Č
ATOM	102	CDZ	LEU	49	56. 804	38.606	39. 752	1.00 30.71	A	Č
ATOM	102	0	LEU	49	57. 147	38. 919	38.614	1. 00 30. 14	A	Ö
ATOM	103	N	LYS	50	56. 198	37. 459	40.024	1.00 32.51	A	Ň
ATOM	105	CA	LYS	50	55. 959	36. 491	38. 971	1.00 33.54	Ä	Ċ
ATOM	106	CB	LYS	50	56. 289	35. 098	39. 485	1.00 33.30	Ä	Č
ATOM	107	CG	LYS	50	57. 763	34.940	39. 790	1.00 33.89	A	Č ·
ATOM	108	CD	LYS	50	58. 591	35. 213	38. 545	1.00 35.19	Ä	Č
ATOM	100	CE	LYS	50	60.071	34. 945	38. 778	1.00 38.12	A	Č
ATOM	110	NZ	LYS	50	60. 859	35.028	37. 515	1.00 39.27	A	N
ATOM	111	C	LYS	50	54. 572	36.517	38. 361	1.00 34.93	Ā	C
ATOM	112	ŏ	LYS	50	54. 272	35.719	37. 478	1.00 35.13	A	0
ATOM	113	N	ASN	51	53. 731	37. 436	38. 822	1.00 36.66	A	N
ATOM	114	CA	ASN	51	52. 379	37. 569	38. 294	1.00 38.39	A	C
ATOM	115	CB	ASN	51	52. 428	37. 859	36. 791	1.00 41.61	A	Č
ATOM	116	CG	ASN	51	53. 407	38.968	36. 436	1.00 44.75	Ā	Č
ATOM	117		ASN	51	53. 212	40.131	36. 801	1.00 46.38	Ā	0
ATOM	118		ASN	51	54. 470	38.609	35. 717	1.00 45.80	A	N
ATOM	119	C	ASN	51	51. 529	36. 324	38. 517	1.00 38.21	A	C
ATOM	120	ŏ	ASN	51	50. 708	35. 976	37. 674	1.00 40.60	A	0
ATOM	121	Ň	THR	52	51.720	35.647	39. 641	1.00 36.74	A	Ň
ATOM	122	CA	THR	52	50.942	34. 451	39. 926	1.00 35.44	Α	С
ATOM	123	CB	THR	52	51.297	33.888	41.298	1.00 35.57	Α	C
ATOM	124	0G1		52	52.646	33. 415	41. 272	1.00 38.62	Α	0
ATOM	125	CG2		52	50.367	32.750	41.666	1.00 35.25	Α	C
ATOM	126	C	THR	52	49.431	34.686	39.869	1.00 35.17	Α	C
ATOM.	127	Ŏ	THR	52	48.699	33.889	39.276	1.00 36.44	Α	0
ATOM	128	Ň	TYR	53	48.962	35.765	40.487	1.00 33.55	Α	N
ATOM	129	CA	TYR	53	47. 535	36.081	40.487	1.00 33.46	Α	С
ATOM	130	CB	TYR	53	47.084	36.407	41.903	1.00 32.64	Α	С
ATOM	131	CG	TYR	53	47.399	35.293	42.861	1.00 33.83	Α	C
ATOM	132	CD1	TYR	53	48.341	35.462	43.872	1.00 34.11	Α	С
ATOM	133	CE1	TYR	53	48.657	34.425	44.741	1.00 34.24	Α	C
ATOM	134	CD2	TYR	53	46.775	34.050	42.741	1.00 36.17	Α	<b>C</b> .
ATOM	135	CE2	TYR	53	47.084	33.001	43.605	1.00 35.64	Α	C
ATOM	136	CZ	TYR	53	48.026	33. 199	44.601	1.00 35.74	Α	С
ATOM	137	OH	TYR	53	48. 343	32.170	45.453	1.00 35.79	Α	0
ATOM	138	C	TYR	53	47. 266	37.248	39.548	1.00 33.40	Α	С
ATOM	139	0	TYR	53	47. 486	38. 404	39.895	1.00 33.56	A	0
ATOM	140	N	ARG	54	46.773	36.929	38. 355	1.00 34.36	A	N
ATOM	141	CA	ARG	54	46. 526	37. 933	37. 327	1.00 34.87	A	C
ATOM	142	CB	ARG	54	46. 993	37. 387	35.972	1.00 35.72	A	C
ATOM	143	CG	ARG	54	46.887	38. 373	34. 821	1.00 39.96	A	C
ATOM	144	CD	ARG	54	47. 675	37. 880	33.613	1.00 43.22	A	C
ATOM	145	NE	ARG	54	47.651	38. 831	32.506	1.00 46.70	A	N
ATOM	146	CZ	ARG	54	46. 587	39.068	31.744	1.00 49.10	A	С

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ATOM 147 NH1 ARG 54 45.451 38.416 31.968 1.00 49.25 A N ATOM 148 NH2 ARG 54 46.657 39.957 30.757 1.00 50.00 A A C ATOM 149 C ARG 54 44.141 37.687 37.202 1.00 33.844 A C ATOM 150 0 ARG 54 44.141 37.687 37.314 1.00 34.59 A O ATOM 151 N LEU 55 44.982 39.748 36.961 1.00 33.05 A N ATOM 152 CA LEU 55 43.693 40.402 36.788 1.00 32.40 A C C ATOM 154 CG LEU 55 43.693 40.402 36.788 1.00 32.40 A C C ATOM 155 CD LEU 55 44.042 42.344 38.557 1.00 32.26 A C ATOM 156 CD LEU 55 44.042 42.344 38.557 1.00 32.26 A C ATOM 156 CD LEU 55 44.245 43.847 38.571 1.00 31.83 A C C ATOM 156 CD LEU 55 44.042 42.857 41.967 39.448 1.00 33.66 A C ATOM 158 0 LEU 55 44.044 04.769 34.441 1.00 33.66 A C ATOM 158 0 LEU 55 44.040 40.769 34.441 1.00 33.66 A C ATOM 159 N LYS 56 41.189 39.593 35.050 1.00 31.32 A N ATOM 160 CA LYS 56 41.746 36.484 32.550 1.00 31.32 A N ATOM 161 CB LYS 56 40.584 38.453 33.564 1.00 33.54 A C C ATOM 161 C LYS 56 40.978 36.497 33.733 1.00 34.84 A C C ATOM 163 CD LYS 56 40.978 36.997 33.733 1.00 34.84 A C C ATOM 164 CE LYS 56 42.189 39.593 35.050 1.00 31.32 A N ATOM 166 C LYS 56 40.978 36.997 33.733 1.00 34.84 A C C ATOM 165 NZ LYS 56 41.746 36.484 32.530 1.00 34.84 A C C ATOM 166 C LYS 56 40.978 36.997 33.733 1.00 34.84 A C C ATOM 167 C LYS 56 40.978 36.997 33.733 1.00 34.84 A C C ATOM 168 D LYS 56 41.746 36.484 32.530 1.00 34.85 A C ATOM 167 C LYS 56 40.989 41.345 33.252 1.00 30.03 A C C ATOM 169 CA LEU 57 41.286 41.120 31.956 1.00 30.00 A A C ATOM 169 CA LEU 57 41.286 41.120 31.956 1.00 30.00 A A C ATOM 169 CA LEU 57 42.222 43.233 30.934 1.00 30.00 A A C ATOM 167 C LEU 57 42.224 32.33 30.934 1.00 30.00 A A C ATOM 167 C LEU 57 42.224 32.33 30.934 1.00 30.00 A A C ATOM 170 C B LEU 57 42.222 43.233 30.934 1.00 30.00 A A C ATOM 170 C B LEU 57 42.224 32.23 30.934 1.00 30.00 A A C ATOM 170 C B LEU 57 42.224 32.237 30.934 1.00 30.00 A A C ATOM 170 C B LEU 57 42.224 32.237 30.934 1.00 30.00 A A C ATOM 170 C B LEU 57 42.224 32.237 30.934 1.00 30.00 A A C ATOM 170 C B LEU 57 42.224 32.237 30.934 1.00 30.00 A A C ATOM 170 C B LEU 57 4											
ATOM 149 C ARG 54 46.657 39.957 30.757 1.00 50.00 A N ATOM 149 C ARG 54 45.100 33.445 37.202 1.00 33.84 A C C ATOM 150 0 ARG 54 44.141 37.687 37.314 1.00 34.59 A 0 ATOM 151 N LEU 55 44.982 39.748 36.966 1.00 33.05 A N ATOM 152 CA LEU 55 43.693 40.402 36.788 1.00 32.40 A C C ATOM 153 CB LEU 55 43.792 41.892 37.123 1.00 29.74 A C C ATOM 155 CD1 LEU 55 44.042 42.344 38.557 1.00 31.83 A C ATOM 156 CD2 LEU 55 42.857 41.967 39.448 1.00 33.66 A C C ATOM 156 CD2 LEU 55 44.004 40.769 34.441 1.00 33.66 A C C ATOM 156 CD2 LEU 55 44.004 40.769 34.441 1.00 33.62 A C ATOM 159 N LYS 56 42.189 39.593 35.050 1.00 31.32 A N ATOM 159 N LYS 56 42.189 39.593 35.050 1.00 31.32 A N ATOM 160 CA LYS 56 40.584 38.453 33.564 1.00 33.54 A C ATOM 161 CB LYS 56 40.584 38.453 33.564 1.00 33.54 A C ATOM 162 CG LYS 56 40.978 36.997 33.733 1.00 34.84 A C ATOM 163 CG LYS 56 40.978 36.997 33.733 1.00 34.84 A C ATOM 163 CG LYS 56 40.988 38.453 33.564 1.00 33.54 A C ATOM 163 CG LYS 56 41.746 36.484 32.531 1.00 34.84 A C C ATOM 166 CA LYS 56 40.978 36.997 33.733 1.00 34.84 A C C ATOM 166 C LYS 56 40.988 38.493 33.504 1.00 33.54 A C ATOM 167 C LEU 57 40.836 42.120 35.009 32.698 1.00 40.955 A C ATOM 167 C LYS 56 40.839 41.648 33.698 1.00 33.54 A C C ATOM 167 C LYS 56 40.839 41.648 33.698 1.00 30.03 A C ATOM 167 C LYS 56 40.839 41.648 33.698 1.00 30.03 A C ATOM 167 C LYS 56 40.839 41.648 33.088 1.00 28.24 A C C ATOM 167 C LEU 57 42.022 43.233 30.934 1.00 30.03 A C ATOM 167 C LEU 57 42.022 43.233 30.934 1.00 30.04 A C ATOM 171 CG LEU 57 42.022 43.233 30.934 1.00 30.04 A C ATOM 172 CD LEU 57 42.022 43.233 30.934 1.00 32.13 A C ATOM 173 CD LEU 57 43.230 43.474 31.844 1.00 32.60 A C ATOM 173 CD LEU 57 42.022 43.233 30.934 1.00 32.13 A C ATOM 174 C LEU 57 39.916 41.212 30.02 2.71 1.00 28.60 A C ATOM 177 C A TYR 58 33.594 40.930 29.914 1.00 29.05 A C ATOM 178 C B LEU 57 42.022 43.233 30.934 1.00 32.11 A C ATOM 179 C B LEU 57 42.727 43.999 33.230 1.00 34.11 A C ATOM 179 C B LEU 57 42.727 44.123 44.524 31.94 1.00 29.05 A C ATOM 180 C TYR 58 35.557 43.333 6.956	ΔΤΩΜ	147	NH1	ARG	54	45.451	38.416	31.968	1.00 49.25	Α	
ATOM 149 C ARG 54 45.100 38.445 37.202 1.00 33.84 A C ATOM 150 0 ARG 54 44.141 37.687 37.314 1.00 34.59 A O ATOM 151 N LEU 55 44.982 39.748 36.966 1.00 33.05 A N ATOM 152 CA LEU 55 43.693 40.402 36.788 1.00 32.40 A C ATOM 153 CB LEU 55 44.042 42.344 38.557 1.00 32.26 A C ATOM 155 CDI LEU 55 44.042 42.344 38.557 1.00 32.26 A C ATOM 155 CDI LEU 55 44.042 42.344 38.557 1.00 32.26 A C ATOM 155 CDI LEU 55 44.042 42.344 38.577 1.00 32.26 A C ATOM 157 C LEU 55 44.042 42.854 43.847 38.571 1.00 33.66 A C ATOM 157 C LEU 55 44.040 40.769 39.448 1.00 33.66 A C ATOM 158 D LEU 55 44.004 40.769 39.448 1.00 33.66 A C ATOM 159 N LYS 56 42.189 39.593 35.050 1.00 33.32 A N ATOM 160 CA LYS 56 41.733 39.462 33.673 1.00 31.32 A N ATOM 161 CB LYS 56 41.733 39.462 33.673 1.00 31.42 A C ATOM 161 CB LYS 56 40.584 38.453 33.564 1.00 33.64 A C ATOM 162 CG LYS 56 40.584 38.453 33.564 1.00 33.85 A C C ATOM 163 CD LYS 56 41.736 36.484 32.509 1.00 38.85 A C ATOM 164 CE LYS 56 41.736 36.484 32.509 1.00 38.85 A C ATOM 165 NZ LYS 56 41.746 36.484 32.509 1.00 38.85 A C ATOM 165 CL YS 56 41.240 40.844 32.259 1.00 40.95 A C ATOM 166 C LYS 56 41.240 40.844 32.250 1.00 38.85 A C ATOM 166 C LYS 56 41.240 40.844 32.250 1.00 30.03 A C ATOM 168 N LEU 57 41.286 41.100 31.956 1.00 43.33 A N ATOM 168 N LEU 57 42.022 43.233 30.934 1.00 30.04 A C ATOM 168 N LEU 57 42.022 43.233 30.934 1.00 30.04 A C ATOM 170 CB LEU 57 42.022 43.233 30.934 1.00 30.04 A C ATOM 170 CB LEU 57 42.022 43.233 30.934 1.00 30.04 A C ATOM 170 CB LEU 57 42.022 43.233 30.934 1.00 30.04 A C ATOM 170 CB LEU 57 42.022 43.233 30.934 1.00 30.04 A C ATOM 170 CB LEU 57 43.230 43.474 31.844 1.00 22.55 1 A C ATOM 171 CG LEU 57 43.230 43.474 31.844 1.00 22.55 1 A C ATOM 173 CD2 LEU 57 42.022 43.233 30.934 1.00 30.04 A C ATOM 173 CD2 LEU 57 42.202 43.233 30.934 1.00 30.04 A C ATOM 173 CD2 LEU 57 43.230 43.474 31.844 1.00 22.55 1 A C ATOM 174 C LEU 57 39.916 40.916 20.916 1.00 22.55 1 A C ATOM 175 C B LEU 57 42.202 43.233 30.934 1.00 25.51 A C ATOM 176 C B LEU 57 58.35.557 43.333 26.96 1.00 25.56 A											
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ATOM 182 CD2 TYR 58 35.557 43.333 26.965 1.00 25.26 A C ATOM 183 CE2 TYR 58 34.803 42.911 25.882 1.00 26.13 A C ATOM 184 CZ TYR 58 34.675 41.564 25.619 1.00 25.74 A C ATOM 185 OH TYR 58 33.928 41.160 24.541 1.00 27.32 A O ATOM 186 C TYR 58 38.681 44.288 27.647 1.00 24.95 A C ATOM 187 O TYR 58 37.837 45.176 27.680 1.00 24.68 A O ATOM 188 N SER 59 39.763 44.338 26.876 1.00 24.05 A N ATOM 189 CA SER 59 40.037 45.470 25.997 1.00 24.31 A C ATOM 190 CB SER 59 41.547 45.657 25.817 1.00 24.38 A C ATOM 191 OG SER 59 42.187 45.931 27.051 1.00 28.99 A O ATOM 192 C SER 59 39.405 45.294 24.628 1.00 23.54 A C ATOM 193 O SER 59 39.795 44.420 23.860 1.00 24.84 A O ATOM 194 N LEU 60 38.430 46.135 24.319 1.00 23.51 A N										_	
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ATOM 193 0 SER 59 39.795 44.420 23.860 1.00 24.84 A 0 ATOM 194 N LEU 60 38.430 46.135 24.319 1.00 23.51 A N											
ATOM 194 N LEU 60 38.430 46.135 24.319 1.00 23.51 A N											
						38. 430	46. 135			_	
			CA	LEU	60	37.765	46.073	23. 031	1.00 22.96	Α	C

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ATOM	196	CB	LEU	60	36.256	45.910	23. 228	1.00 21.27	Α	C
ATOM	197	CG	LEU	60	35. 528	46.977	24.048	1.00 20.80	Α	C
ATOM	198		LEU	60	35. 373	48. 227	23. 208	1.00 19.95	Α	C
				60	34. 159	46. 466	24. 488	1.00 18.91	Α	C
ATOM	199	CD2						1.00 23.42	A	č
ATOM	200	C	LEU	60	38.072	47.356	22. 279			
ATOM	201	0	LEU	60	38. 507	48. 340	22.869	1.00 23.10	A	0
ATOM	202	N	ARG	61	37.862	47. 339	20.971	1.00 25.94	Α	N
ATOM	203	CA	ARG	61	38.102	48.522	20.153	1.00 27.08	Α	C
		CB	ARG	61	39. 364	48. 323	19.299	1.00 29.17	Α	С
ATOM	204					47.713	20.076	1.00 34.91	Ä	Č
ATOM	205	CG	ARG	61	40. 545			1.00 34.51	A	č
ATOM	206	CD	ARG	61	41.790	48.612	20.088			
ATOM	207	NE	ARG	61	42.423	48. 715	18.772	1.00 41.15	A	N
ATOM	208	CZ	ARG	61	43.337	47.871	18.299	1.00 41.78	Α	C
ATOM	209	NH1	ARG	61	43.754	46.848	19.033	1.00 40.61	Α	N
ATOM	210		ARG	61	43.821	48.042	17.076	1.00 43.39	Α	N
				61	36.869	48. 724	19. 270	1.00 25.92	Ä	C
ATOM	211	C	ARG			47. 939	18. 358	1.00 26.31	Ä	ŏ
ATOM	212	0	ARG	61	36.616					
ATOM	213	N	TRP	62	36.087	49.758	19.568	1.00 24.63	Ą	N
ATOM	214	CA	TRP	62	34.883	50.050	.18.794	1.00 24.74	Α	C
ATOM	215	CB	TRP	62	34.092	51.207	19.420	1.00 23.22	Α	С
ATOM	216	ĊĠ	TRP	62	33.472	50.900	20.741	1.00 23.78	Α	C
	217	CD2	TRP	62	32. 302	50.110	20.972	1.00 23.80	Α	C
ATOM					32.082	50.085	22. 368	1.00 23.69	A	Č
ATOM	218	CE2	TRP	62				1.00 23.03	A	č
ATOM	219	CE3	TRP	62	31.416	49.419	20.133			
ATOM	220	CD1	TRP	62	33.906	51.310	21.972	1.00 24.25	A	C
ATOM	221	NE1	TRP	62	33.075	50.824	22.955	1.00 23.12	A	N
ATOM	222	CZ2	TRP	62	31.013	49.396	22.945	1.00 23.91	Α	C
ATOM	223	CZ3	TRP	62	30.357	48.736	20.703	1.00 24.08	Α	C
ATOM	224	CH2	TRP	62	30.162	48.730	22.100	1.00 25.02	Α	C
ATOM	225	C	TRP	62	35. 241	50.427	17.365	1.00 25.48	Α	C
					35. 980	51.380	17. 138	1.00 27.15	Ä	Ŏ
ATOM	226	0	TRP	62				1.00 26.16	A	N
ATOM	227	N	ILE	63	34. 722	49.682	16.398			
ATOM	228	CA	ILE	63	35.000	49. 991	15.003	1.00 25.88	A	C
ATOM	229	$\mathbf{CB}$	ILE	63	35.312	48. 727	14. 180	1.00 25.95	A	C
ATOM	230	CG2	ILE	63	36.494	48.000	14. 783	1.00 27.39	Α	C
ATOM	231	CG1	ILE	63	34.092	47.810	14. 138	1.00 24.70	Α	C
ATOM	232	CD1		63	34. 246	46.666	13.174	1.00 25.35	Α	С
ATOM	233	C	ILE	63	33. 788	50.680	14.400	1.00 26.00	Α	C
					33. 803	51.075	13. 239	1.00 26.14	Ä	Õ
ATOM	234	0	ILE	63		50.812	15. 202	1.00 26.48	A	Ň
ATOM	235	N	SER	64	32. 738					
ATOM	236	CA	SER	64	31.510	51.470	14.768	1.00 28.43	A	C
ATOM	237	CB	SER	64	30.764	50.603	13.754	1.00 27.24	A	C
ATOM	238	0G	SER	64	30. 181	49.481	14.392	1.00 28.00	A	0
ATOM	239	C	SER	64	30.597	51.727	15.964	1.00 29.08	Α	С
ATOM	240	ŏ	SER	$6\overline{4}$	31.008	51.606	17.119	1.00 26.71	Α	0
ATOM	241	Ň	ASP	65	29. 348	52.067	15.678	1.00 31.29	Α	N
	242	CA	ASP	65	28. 382	52. 336	16. 732	1.00 34.90	Ā	C
ATOM						53. 397	16. 269	1.00 37.81	Ä	č
ATOM	243	CB	ASP	65 65	27. 384				A	Č
ATOM	244	CG	ASP	65	26. 515	53. 905	17. 395	1.00 41.52	Л	C



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ATOM	245	0D1	ΔCD	65	27. 070	54. 235	18.465	1.00 43.44	Α	0
	246	0D1		65	25. 281	53. 986	17. 211	1.00 44.76	A	0
ATOM		C	ASP	65	27. 640	51.064	17. 128	1.00 34.55	Ā	Ċ
ATOM	247			65	26. 753	51.004	17. 981	1.00 33.76	A	Ö
ATOM	248	0	ASP		28. 023	49. 946	16. 520	1.00 34.31	Ä	Ň
ATOM	249	N	HIS	66 66		48. 679	16. 807	1.00 34.31	A	Č
ATOM	250		HIS	66 66	27. 369			1.00 33.30	A	č
ATOM	251		HIS	66	26. 555	48. 229	15. 589		A	Ċ
ATOM	252		HIS	66	25. 648	49. 288	15.052	1.00 42.72		C
ATOM	253	CD2		66	24. 298	49. 393	15.056	1.00 44.80	A	
ATOM	254	ND1		66	26. 121	50. 438	14. 455	1.00 45.16	A	N C
ATOM	255	CE1		66	25. 101	51. 206	14.114	1.00 46.24	A	C
ATOM	256	NE2		66	23. 984	50. 595	14.468	1.00 46.79	A	N
ATOM	257	C	HIS	66	28. 314	47. 555	17. 223	1.00 33.78	A	C
ATOM	258	0	HIS	66	27.966	46. 736	18.068	1.00 34.67	A	0
ATOM	259	N	GLU	67	29. 502	47.501	16.635	1.00 31.93	A	N
ATOM	260	CA	GLU	67	30. 432	46. 434	16.979	1.00 31.45	A	C
ATOM	261	CB	GLU	67	30. 557	45. 463	15.801	1.00 31.46	A	C
ATOM	262	CG	GLU	67	30.356	46. 103	14.447	1.00 33.17	A	C
ATOM	263	CD	GLU	67	30. 357	45.092	13.311	1.00 35.48	A	C
ATOM	264	0E1		67	29.607	44.090	13. 394	1.00 32.44	A	0
ATOM	265	0E2	GLU	67	31.104	45.306	12.329	1.00 36.60	Α	0
ATOM	266	C	GLU	67	31.818	46.866	17.442	1.00 29.97	Α	C
ATOM	267	0	GLU	67	32.240	48.003	17. 241	1.00 30.44	Α	0
ATOM	268	N	TYR	68	32.513	45.940	18.088	1.00 29.07	Α	N
ATOM	269	CA	TYR	68	33.863	46.190	18.567	1.00 28.87	Α	C
ATOM	270	CB	TYR	<b>6</b> 8	33.866	46.447	20.073	1.00 26.31	Α	C
ATOM	271	CG	TYR	68	33.307	45.324	20.917	1.00 23.19	Α	С
ATOM	272	CD1	TYR	68	32.000	45.376	21.400	1.00 21.93	Α	C C C C
ATOM	273	CE 1	TYR	68	31.497	44.372	22. 231	1.00 21.10	Α	С
ATOM	274	CD2	TYR	68	34.102	44. 232	21.281	1.00 23.23	Α	C
ATOM	275		TYR	68	33.610	43. 225	22.110	1.00 22.67	Α	С
ATOM	276	CZ	TYR	68	32.304	43.305	22.582	1.00 22.02	Α	С
ATOM	277	OH	TYR	68		42.321	23.403	1.00 22.72	Α	0
ATOM	278	C	TYR	68	34.747	44.987	18. 256	1.00 29.51	Α	С
ATOM	279	0	TYR	68	34.244	43.885	18.028	1.00 28.32	Α	0
ATOM	280	N	LEU	69	36.058	45. 202	18. 233	1.00 29.87	Α	N
ATOM	281	CA	LEU	69	36.986	44.115	17.963	1.00 32.20	Α	С
ATOM	282	CB	LEU	69	38.154	44.602	17.106	1.00 30.73	Α	С
ATOM	283	CG	LEU	69	37.761	45.065	15.700	1.00 30.62	Α	С
ATOM	284		LEU	69	38. 978	45.629	14.963	1.00 29.98	Α	С
ATOM	285		LEU	69	37. 164	43.891	14. 943	1.00 30.17	Α	C
ATOM	286	C	LEU	69	37. 492	43. 588	19. 292	1.00 34.73	A	Ċ
ATOM	287	ŏ	LEU	69	37. 474	44. 305	20. 294	1.00 34.80	Ā	0
ATOM	288	N	TYR	70	37. 927	42. 334	19. 305	1.00 37.39	A	N
ATOM	289	CA	TYR	70	38. 423	41.726	20. 528	1.00 42.16	A	Ċ
ATOM	290	CB	TYR	70	37. 251	41.359	21.444	1.00 42.66	A	Č
ATOM	291	CG	TYR	70	37. 689	40.866	22. 799	1.00 43.06	Ä	č
ATOM	292	CD1		70	38. 400	41.697	23.657	1.00 43.56	A	č
ATOM	293		TYR	70	38. 837	41. 253	24. 892	1.00 44.69	Α	Č
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ATOM 294 CD2 TYR 70 37.421 39.563 23.213 1.00 43.93 A C ATOM 295 CZ TYR 70 37.853 39.104 24.452 1.00 44.83 A C C ATOM 296 CZ TYR 70 39.004 39.532 26.516 1.00 45.17 A C ATOM 297 OH TYR 70 39.004 39.532 26.516 1.00 47.21 A O ATOM 298 C TYR 70 38.563 39.959 25.286 1.00 45.16 A C ATOM 299 O TYR 70 38.976 39.752 19.287 1.00 46.31 A O ATOM 300 N LYS 71 40.254 40.231 21.072 1.00 49.93 A N ATOM 301 CA LYS 71 40.254 40.231 21.072 1.00 49.93 A N ATOM 301 CA LYS 71 41.113 39.064 20.895 1.00 54.71 A C ATOM 303 CG LYS 71 42.580 39.460 21.054 1.00 54.71 A C ATOM 303 CG LYS 71 43.075 40.455 20.031 1.00 56.37 A C ATOM 304 CD LYS 71 44.559 40.712 20.226 1.00 58.61 A C ATOM 305 CE LYS 71 45.126 41.628 19.159 1.00 58.61 A C ATOM 306 NZ LYS 71 40.790 37.952 21.889 1.00 57.38 A C ATOM 307 C LYS 71 40.790 37.952 21.889 1.00 57.38 A C ATOM 309 N GLN 72 40.158 36.884 21.406 1.00 56.32 A C ATOM 309 N GLN 72 40.158 36.884 21.406 1.00 56.33 A C ATOM 309 N GLN 72 40.158 36.884 21.406 1.00 56.33 A C ATOM 311 CB GLN 72 39.816 35.750 22.261 1.00 66.30 A N ATOM 311 CB GLN 72 39.816 35.750 22.261 1.00 66.32 A C ATOM 312 CG GLN 72 38.313 33.695 22.417 1.00 66.32 A C ATOM 314 OBIG GLN 72 38.902 34.775 21.526 1.00 66.30 A N ATOM 315 NEZ GLN 72 38.313 33.695 22.417 1.00 66.33 A C C ATOM 314 OBIG GLN 72 38.313 33.695 22.417 1.00 66.80 A N ATOM 314 OBIG GLN 72 37.270 34.292 24.671 1.00 66.83 A C ATOM 314 OBIG GLN 72 37.270 34.292 24.671 1.00 66.83 A C ATOM 315 NEZ GLN 72 41.563 35.049 22.607 1.00 66.83 A C ATOM 317 O GLN 72 41.563 35.049 22.050 71.00 66.80 A N ATOM 319 CA CLU 73 41.103 34.092 24.671 1.00 66.33 A C ATOM 319 CA CLU 73 41.103 34.092 24.671 1.00 66.83 A C ATOM 319 CA CLU 73 41.563 35.049 22.007 1.00 66.80 A N ATOM 319 CA CLU 73 44.563 35.059 21.875 1.00 66.33 A C ATOM 320 CB GLU 73 44.963 35.059 21.875 1.00 66.33 A C ATOM 320 CB GLU 73 44.963 35.059 21.875 1.00 66.534 A C ATOM 320 CB GLU 73 44.963 35.049 22.007 1.00 66.80 A N ATOM 322 CD GLU 73 44.963 35.049 22.007 1.00 66.80 A N ATOM 320 CB GLU 73 44.963 35.099 1.00 66.80 A N ATOM 330											
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ATOM 306 NZ LYS 71 40.590 41.830 19.361 1.00 60.82 A N ATOM 307 C LYS 71 40.790 37.952 21.889 1.00 57.38 A C ATOM 308 O LYS 71 41.109 38.062 23.075 1.00 58.38 A O C ATOM 309 N GLN 72 40.158 36.884 21.406 1.00 60.30 A N ATOM 310 CA GLN 72 39.816 35.750 22.261 1.00 63.23 A C ATOM 311 CB GLN 72 38.902 34.775 21.526 1.00 64.53 A C ATOM 312 CG GLN 72 38.33 33.695 22.417 1.00 66.884 A C ATOM 313 CD GLN 72 37.270 34.240 23.375 1.00 66.33 A C C ATOM 314 OB1 GLN 72 36.251 34.790 22.952 1.00 67.19 A O ATOM 315 NEZ GLN 72 37.519 34.092 24.671 1.00 66.80 A N ATOM 316 C GLN 72 41.563 35.049 22.607 1.00 66.80 A C ATOM 317 O GLN 72 41.563 35.049 22.607 1.00 67.19 A O ATOM 318 N GLU 73 41.736 34.442 21.597 1.00 66.80 A N ATOM 319 CA GLU 73 41.736 34.492 21.00 67.10 A C ATOM 319 CA GLU 73 43.012 33.763 21.775 1.00 66.90 A N ATOM 320 CB GLU 73 43.012 33.763 21.775 1.00 67.12 A C ATOM 320 CB GLU 73 43.012 33.763 21.775 1.00 67.12 A C ATOM 322 CD GLU 73 43.012 33.763 21.570 1.00 71.35 A C ATOM 322 CD GLU 73 44.971 31.433 21.570 1.00 71.35 A C ATOM 323 OB1 GLU 73 44.076 34.812 21.597 1.00 71.35 A C ATOM 326 C GLU 73 44.076 34.812 21.597 1.00 72.71 A C ATOM 326 C GLU 73 44.076 34.812 21.597 1.00 72.71 A C ATOM 327 N ASN 74 44.430 34.442 19.924 1.00 65.33 A C ATOM 328 CA ASN 74 44.430 34.442 19.924 1.00 65.33 A C ATOM 329 CB ASN 74 44.430 34.442 19.924 1.00 65.33 A C ATOM 329 CB ASN 74 44.430 34.442 19.924 1.00 65.33 A C ATOM 331 OD1 ASN 74 44.430 34.442 19.924 1.00 65.51 A O ATOM 332 OD3 ASN 74 44.6661 34.466 18.889 1.00 64.38 A C ATOM 333 OD1 ASN 74 44.533 43.212 20.034 1.00 65.51 A O ATOM 333 OD1 ASN 74 44.538 35.859 17.977 1.00 61.55 A C ATOM 334 O ASN 74 45.384 36.714 17.318 1.00 65.51 A O ATOM 335 N ASN 75 42.203 34.785 15.871 1.00 57.81 A C ATOM 336 CA ASN 75 42.888 35.896 16.918 1.00 55.82 A C ATOM 339 OD1 ASN 75 42.823 34.785 15.871 1.00 55.82 A C ATOM 339 OD1 ASN 75 42.888 35.886 16.918 1.00 55.892 A N ATOM 340 ND2 ASN 75 42.888 35.886 16.918 1.00 55.892 A N ATOM 341 C ASN 75 42.803 34.855 16.918 1.00 55.892 A N ATOM 341 C	ATOM										
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ATOM 310 CA GLN 72 40.158 36.884 21.406 1.00 60.30 A N ATOM 310 CA GLN 72 39.816 35.750 22.261 1.00 63.23 A C ATOM 311 CB GLN 72 38.902 34.775 21.526 1.00 64.07 A C ATOM 312 CG GLN 72 38.313 33.695 22.417 1.00 65.84 A C ATOM 313 CD GLN 72 37.270 34.240 23.375 1.00 66.33 A C ATOM 314 0E1 GLN 72 36.251 34.790 22.952 1.00 67.19 A O ATOM 315 NE2 GLN 72 37.519 34.092 24.671 1.00 66.80 A N ATOM 316 C GLN 72 41.122 35.049 22.607 1.00 65.34 A C ATOM 317 O GLN 72 41.563 35.058 23.760 1.00 67.00 A O ATOM 318 N GLU 73 41.736 34.442 21.597 1.00 66.09 A N ATOM 319 CA GLU 73 43.012 33.763 21.775 1.00 66.53 A C ATOM 320 CB GLU 73 43.012 33.763 21.775 1.00 68.53 A C ATOM 321 CG GLU 73 44.974 31.433 21.570 1.00 68.53 A C ATOM 322 CD GLU 73 42.223 31.026 23.012 1.00 72.71 A C ATOM 323 OE1 GLU 73 44.91 30.147 23.517 1.00 71.35 A C ATOM 324 0E2 GLU 73 44.666 33.651 21.887 1.00 74.16 A O ATOM 326 O GLU 73 44.563 35.652 23.643 1.00 74.16 A O ATOM 326 O GLU 73 44.563 35.652 21.857 1.00 66.83 A C ATOM 329 CB ASN 74 44.6661 34.462 19.924 1.00 65.38 A C ATOM 329 CB ASN 74 44.430 34.442 19.924 1.00 66.83 A C ATOM 329 CB ASN 74 44.6661 34.466 18.889 1.00 64.38 A C ATOM 329 CB ASN 74 44.7654 34.422 20.034 1.00 65.38 A C ATOM 329 CB ASN 74 44.7654 34.422 20.034 1.00 65.55 A O ATOM 329 CB ASN 74 44.7654 34.422 20.034 1.00 65.55 A O ATOM 329 CB ASN 74 44.7654 34.422 20.034 1.00 65.55 A O ATOM 330 CG ASN 74 44.7654 34.422 20.034 1.00 65.55 A O ATOM 331 OD1 ASN 74 44.794 35.859 17.977 1.00 67.65 A O ATOM 331 OD1 ASN 74 44.794 35.859 17.977 1.00 67.55 A C ATOM 332 ND2 ASN 74 44.794 35.859 17.977 1.00 67.55 A C ATOM 333 CD ASN 74 44.794 35.859 17.977 1.00 67.55 A C ATOM 336 CA ASN 75 42.023 34.785 15.871 1.00 57.81 A C ATOM 337 CB ASN 75 42.023 34.785 15.871 1.00 57.81 A C ATOM 339 OD1 ASN 75 42.023 34.785 15.871 1.00 58.67 A N ATOM 339 OD1 ASN 75 42.023 34.785 15.871 1.00 58.92 A N ATOM 339 OD1 ASN 75 42.023 34.785 15.871 1.00 58.92 A N ATOM 339 OD1 ASN 75 42.023 34.785 15.871 1.00 58.92 A N ATOM 340 ND2 ASN 75 42.023 34.785 17.999 1.00 59.69 A		308	0	LYS	71	41.109					
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ATOM 311 CB GLN 72 38.902 34.775 21.526 1.00 64.07 A C ATOM 312 CG GLN 72 38.313 33.695 22.417 1.00 65.84 A C ATOM 313 CD GLN 72 37.270 34.240 23.375 1.00 66.33 A C ATOM 314 OE1 GLN 72 36.251 34.790 22.952 1.00 67.19 A O ATOM 315 NE2 GLN 72 37.519 34.092 24.671 1.00 66.80 A N ATOM 316 C GLN 72 41.122 35.049 22.607 1.00 65.34 A C ATOM 317 O GLN 72 41.563 35.058 23.760 1.00 67.00 A O ATOM 318 N GLU 73 41.736 34.442 21.597 1.00 66.09 A N ATOM 319 CA GLU 73 43.012 33.763 21.775 1.00 66.09 A N ATOM 319 CA GLU 73 43.012 33.763 21.775 1.00 66.99 A N ATOM 320 CB GLU 73 43.008 32.420 21.046 1.00 68.53 A C ATOM 321 CG GLU 73 41.974 31.433 21.570 1.00 72.71 A C ATOM 322 CD GLU 73 41.491 30.147 23.517 1.00 73.51 A O ATOM 323 OE1 GLU 73 41.491 30.147 23.517 1.00 73.51 A O ATOM 324 OE2 GLU 73 44.076 34.681 21.184 1.00 66.83 A C ATOM 326 O GLU 73 44.563 35.592 21.857 1.00 67.65 A O ATOM 327 N ASN 74 44.563 35.592 21.857 1.00 66.83 A C ATOM 328 CA ASN 74 45.541 35.573 19.236 1.00 63.38 A C ATOM 329 CB ASN 74 46.661 34.442 20.034 1.00 66.38 A C ATOM 329 CB ASN 74 46.661 34.442 20.034 1.00 66.38 A C ATOM 330 CG ASN 74 47.654 34.422 20.034 1.00 66.10 A C ATOM 331 OD1 ASN 74 44.794 35.859 17.977 1.00 61.55 A C ATOM 332 ND2 ASN 74 44.794 35.859 17.977 1.00 66.62 A N ATOM 332 ND2 ASN 74 44.794 35.859 17.977 1.00 66.51 A O ATOM 333 C ASN 74 44.794 35.859 17.977 1.00 66.62 A N ATOM 333 C ASN 74 44.794 35.859 17.977 1.00 66.55 A C ATOM 333 C ASN 74 44.794 35.859 17.977 1.00 66.55 A C ATOM 333 C ASN 74 44.794 35.859 17.977 1.00 66.55 A C ATOM 333 C ASN 74 44.794 35.859 17.977 1.00 65.582 A C ATOM 335 N ASN 75 42.888 35.886 16.481 1.00 55.82 A C ATOM 337 CB ASN 75 42.888 35.886 16.481 1.00 55.82 A C ATOM 339 OD1 ASN 75 42.888 35.886 16.481 1.00 55.82 A C ATOM 339 OD1 ASN 75 42.888 35.886 16.687 1.00 58.63 A C ATOM 339 OD1 ASN 75 42.888 35.886 16.687 1.00 58.63 A C ATOM 339 OD1 ASN 75 42.888 35.886 16.687 1.00 58.63 A C ATOM 339 OD1 ASN 75 42.888 35.886 16.687 1.00 58.892 A N ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 34			CA	GLN	72	39.816	35. 750	22.261	1.00 63.23	Α	С
ATOM 312 CG GLN 72 38. 313 33.695 22.417 1.00 65.84 A C ATOM 313 CD GLN 72 37. 270 34. 240 23. 375 1.00 66. 33 A C ATOM 314 OE1 GLN 72 36. 251 34. 790 22. 952 1.00 67. 19 A O ATOM 315 NE2 GLN 72 37. 519 34. 092 24. 671 1.00 66. 80 A N ATOM 316 C GLN 72 41. 122 35. 049 22. 607 1. 00 65. 34 A C ATOM 317 O GLN 72 41. 122 35. 049 22. 607 1. 00 65. 34 A C ATOM 318 N GLU 73 41. 736 34. 442 21. 597 1. 00 66. 09 A N ATOM 319 CA GLU 73 43. 012 33. 763 21. 775 1. 00 67. 12 A C ATOM 320 CB GLU 73 43. 012 33. 763 21. 775 1. 00 67. 12 A C ATOM 321 CG GLU 73 43. 008 32. 420 21. 046 1. 00 68. 53 A C ATOM 322 CD GLU 73 41. 974 31. 433 21. 570 1. 00 71. 35 A C ATOM 323 OE1 GLU 73 41. 491 30. 147 23. 517 1. 00 72. 71 A C ATOM 324 OE2 GLU 73 44. 076 34. 681 21. 184 1. 00 66. 83 A C ATOM 325 C GLU 73 44. 076 34. 681 21. 184 1. 00 66. 83 A C ATOM 326 O GLU 73 44. 44. 076 34. 681 21. 184 1. 00 66. 83 A C ATOM 327 N ASN 74 44. 430 34. 442 19. 924 1. 00 65. 38 A C ATOM 329 CB ASN 74 44. 430 34. 442 19. 924 1. 00 66. 83 A C ATOM 329 CB ASN 74 44. 430 34. 442 19. 924 1. 00 66. 83 A C ATOM 329 CB ASN 74 46. 661 34. 466 188. 889 1. 00 64. 38 A C ATOM 330 CG ASN 74 45. 411 35. 273 19. 236 1. 00 66. 10 A C ATOM 331 OD1 ASN 74 44. 7973 33. 216 20. 503 1. 00 66. 62 A N ATOM 332 ND2 ASN 74 47. 973 33. 216 20. 503 1. 00 66. 62 A N ATOM 332 ND2 ASN 74 47. 973 33. 216 20. 503 1. 00 66. 62 A N ATOM 333 C ASN 74 44. 7973 33. 216 20. 503 1. 00 66. 62 A N ATOM 335 N ASN 75 42. 888 35. 886 16. 481 1. 00 55. 82 A C ATOM 336 CA ASN 75 42. 888 35. 886 16. 481 1. 00 55. 82 A C ATOM 337 CB ASN 75 42. 888 35. 886 16. 481 1. 00 55. 82 A C ATOM 339 OD1 ASN 75 42. 888 35. 886 16. 481 1. 00 55. 82 A C ATOM 339 OD1 ASN 75 42. 888 35. 886 16. 697 1. 00 58. 69 A O ATOM 340 ND2 ASN 75 41. 410 33. 887 16. 916 1. 00 58. 69 A O ATOM 340 ND2 ASN 75 41. 410 33. 887 16. 916 1. 00 58. 69 A O ATOM 340 ND2 ASN 75 41. 410 33. 887 16. 916 1. 00 58. 92 A N ATOM 341 C ASN 75 42. 888 35. 806 16. 697 1. 00 58. 92 A N ATOM 341 C ASN 75 42. 888 35. 806 16. 697 1. 00 58. 92 A N ATOM				GLN	72	38. 902	34. 775	21.526	1.00 64.07	Α	С
ATOM 313 CD GLN 72 37. 270 34. 240 23. 375 1. 00 66. 33 A C ATOM 314 OE1 GLN 72 36. 251 34. 790 22. 952 1. 00 67. 19 A O ATOM 315 NE2 GLN 72 37. 519 34. 092 24. 671 1. 00 66. 80 A N ATOM 316 C GLN 72 41. 122 35. 049 22. 607 1. 00 67. 00 A O ATOM 317 O GLN 72 41. 122 35. 049 22. 607 1. 00 67. 00 A O ATOM 318 N GLU 73 41. 736 34. 442 21. 597 1. 00 66. 09 A N ATOM 319 CA GLU 73 43. 012 33. 763 21. 775 1. 00 67. 12 A C ATOM 320 CB GLU 73 43. 012 33. 763 21. 775 1. 00 67. 12 A C ATOM 321 CG GLU 73 43. 008 32. 420 21. 046 1. 00 68. 53 A C ATOM 321 CG GLU 73 42. 223 31. 026 23. 012 1. 00 72. 71 A C ATOM 323 0E1 GLU 73 41. 491 30. 147 23. 517 1. 00 73. 51 A O ATOM 324 0E2 GLU 73 44. 076 34. 681 21. 184 1. 00 66. 83 A C ATOM 325 C GLU 73 44. 076 34. 681 21. 184 1. 00 66. 83 A C ATOM 326 O GLU 73 44. 076 34. 681 21. 184 1. 00 66. 83 A C ATOM 327 N ASN 74 44. 44. 430 34. 442 19. 924 1. 00 65. 38 A C ATOM 329 CB ASN 74 46. 661 34. 466 18. 889 1. 00 64. 38 A C ATOM 330 CG ASN 74 46. 661 34. 466 18. 889 1. 00 64. 38 A C ATOM 331 OD1 ASN 74 44. 794 35. 859 17. 977 1. 00 61. 55 A C ATOM 332 ND2 ASN 74 46. 661 34. 466 18. 889 1. 00 66. 62 A N ATOM 332 ND2 ASN 74 47. 973 33. 216 20. 503 1. 00 66. 62 A N ATOM 333 CA ASN 74 44. 794 35. 859 17. 977 1. 00 61. 55 A C ATOM 333 CA ASN 74 44. 794 35. 859 17. 977 1. 00 61. 55 A C ATOM 333 CA ASN 74 44. 794 35. 859 17. 977 1. 00 61. 55 A C ATOM 333 CA ASN 74 44. 794 35. 859 17. 977 1. 00 61. 55 A C ATOM 335 N ASN 75 42. 888 35. 886 16. 481 1. 00 55. 82 A C ATOM 337 CB ASN 75 42. 888 35. 886 16. 481 1. 00 55. 82 A C ATOM 337 CB ASN 75 42. 888 35. 886 16. 481 1. 00 55. 82 A C ATOM 339 OD1 ASN 75 42. 023 34. 785 16. 916 1. 00 58. 63 A C ATOM 339 OD1 ASN 75 42. 023 34. 785 16. 916 1. 00 58. 63 A C ATOM 340 ND2 ASN 75 42. 023 34. 785 16. 916 1. 00 58. 63 A C ATOM 340 ND2 ASN 75 42. 023 34. 785 16. 916 1. 00 58. 63 A C ATOM 340 ND2 ASN 75 41. 400 32. 580 16. 697 1. 00 58. 63 A C ATOM 340 ND2 ASN 75 42. 023 34. 785 16. 916 1. 00 58. 63 A C ATOM 341 CASN 75 42. 023 34. 785 16. 916 1. 00 58. 92 A						38. 313	33.695	22.417	1.00 65.84	Α	
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ATOM 315 NE2 GLN 72 37.519 34.092 24.671 1.00 66.80 A N ATOM 316 C GLN 72 41.122 35.049 22.607 1.00 65.34 A C ATOM 317 0 GLN 72 41.563 35.058 23.760 1.00 67.00 A O ATOM 318 N GLU 73 41.736 34.442 21.597 1.00 66.09 A N ATOM 319 CA GLU 73 43.012 33.763 21.775 1.00 67.12 A C ATOM 320 CB GLU 73 43.012 33.763 21.775 1.00 67.12 A C ATOM 321 CG GLU 73 41.974 31.433 21.570 1.00 71.35 A C ATOM 322 CD GLU 73 41.491 30.147 23.517 1.00 72.71 A C ATOM 323 0E1 GLU 73 41.491 30.147 23.517 1.00 73.51 A O ATOM 324 0E2 GLU 73 44.491 30.147 23.517 1.00 73.51 A O ATOM 325 C GLU 73 44.076 34.681 21.184 1.00 66.83 A C ATOM 326 O GLU 73 44.563 35.592 21.857 1.00 67.65 A O ATOM 327 N ASN 74 44.430 34.442 19.924 1.00 67.65 A O ATOM 328 CA ASN 74 45.411 35.273 19.236 1.00 63.38 A C ATOM 329 CB ASN 74 46.661 34.466 18.889 1.00 64.38 A C ATOM 330 CG ASN 74 47.654 34.422 20.034 1.00 66.10 A C ATOM 331 OD1 ASN 74 48.128 35.463 20.496 1.00 65.51 A O ATOM 332 ND2 ASN 74 47.654 34.422 20.034 1.00 66.10 A C ATOM 333 C ASN 74 47.973 33.216 20.503 1.00 66.62 A N ATOM 333 C ASN 74 47.973 33.216 20.503 1.00 66.62 A N ATOM 333 C ASN 74 47.973 33.216 20.503 1.00 66.62 A N ATOM 333 C ASN 74 47.973 33.216 20.503 1.00 66.62 A N ATOM 333 C ASN 74 47.973 33.216 20.503 1.00 66.52 A C ATOM 336 CA ASN 75 42.888 35.886 16.481 1.00 55.82 A C ATOM 337 CB ASN 75 42.888 35.886 16.481 1.00 55.82 A C ATOM 338 CG ASN 75 42.888 35.886 16.697 1.00 58.67 A N ATOM 338 CG ASN 75 42.888 35.886 16.697 1.00 58.63 A C ATOM 339 OD1 ASN 75 42.888 35.886 16.697 1.00 58.69 A N ATOM 339 OD1 ASN 75 42.888 35.886 16.697 1.00 58.69 A N ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 341 C ASN 75 42.017 37.045 16.918 1.00 52.82 A C								22.952	1.00 67.19	Α	0
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ATOM 335 N ASN 75 43.597 35.390 17.647 1.00 58.67 A N ATOM 336 CA ASN 75 42.888 35.886 16.481 1.00 55.82 A C ATOM 337 CB ASN 75 42.023 34.785 15.871 1.00 57.81 A C ATOM 338 CG ASN 75 41.410 33.887 16.916 1.00 58.63 A C ATOM 339 OD1 ASN 75 40.857 34.358 17.909 1.00 59.69 A O ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 341 C ASN 75 42.017 37.045 16.918 1.00 52.82 A C	ATOM	333	C	ASN	74						
ATOM 335 N ASN 75 43.597 35.390 17.647 1.00 58.67 A N ATOM 336 CA ASN 75 42.888 35.886 16.481 1.00 55.82 A C ATOM 337 CB ASN 75 42.023 34.785 15.871 1.00 57.81 A C ATOM 338 CG ASN 75 41.410 33.887 16.916 1.00 58.63 A C ATOM 339 OD1 ASN 75 40.857 34.358 17.909 1.00 59.69 A O ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 341 C ASN 75 42.017 37.045 16.918 1.00 52.82 A C	ATOM	334	0	ASN	74						
ATOM       336       CA       ASN       75       42.888       35.886       16.481       1.00 55.82       A       C         ATOM       337       CB       ASN       75       42.023       34.785       15.871       1.00 57.81       A       C         ATOM       338       CG       ASN       75       41.410       33.887       16.916       1.00 58.63       A       C         ATOM       339       OD1       ASN       75       40.857       34.358       17.909       1.00 59.69       A       O         ATOM       340       ND2       ASN       75       41.500       32.580       16.697       1.00 58.92       A       N         ATOM       341       C       ASN       75       42.017       37.045       16.918       1.00 52.82       A       C	ATOM	335	N	ASN	75					_	
ATOM 337 CB ASN 75 42.023 34.785 15.871 1.00 57.81 A C ATOM 338 CG ASN 75 41.410 33.887 16.916 1.00 58.63 A C ATOM 339 OD1 ASN 75 40.857 34.358 17.909 1.00 59.69 A O ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 341 C ASN 75 42.017 37.045 16.918 1.00 52.82 A C		336	CA	ASN	<b>7</b> 5						Č
ATOM 338 CG ASN 75 41.410 33.887 16.916 1.00 58.63 A C ATOM 339 OD1 ASN 75 40.857 34.358 17.909 1.00 59.69 A O ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 341 C ASN 75 42.017 37.045 16.918 1.00 52.82 A C						42.023				_	Ç
ATOM 339 OD1 ASN 75 40.857 34.358 17.909 1.00 59.69 A O ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 341 C ASN 75 42.017 37.045 16.918 1.00 52.82 A C						41.410					
ATOM 340 ND2 ASN 75 41.500 32.580 16.697 1.00 58.92 A N ATOM 341 C ASN 75 42.017 37.045 16.918 1.00 52.82 A C						40.857				_	
ATOM 341 C ASN 75 42.017 37.045 16.918 1.00 52.82 A C							32.580				
1110th 10 10 10 10 10 10 10 10 10 10 10 10 10											
							37. 135	18.081	1.00 53.60	Α	0

(Continued)

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ATOM	343	N	ILE	76	41.715	37.937	15.985	1.00 49.11	Α	N
ATOM	344	CA	ILE	76	40.893	39.091	16.294	1.00 44.67	Α	С
ATOM	345	CB	ILE	76	41.343	40.317	15.502	1.00 44.26	Α	C
ATOM	346		ILE	76	40.565	41.533	15.956	1.00 43.37	Α	C
ATOM	347		ILE	76	42.841	40.547	15.716	1.00 45.27	Α	C
ATOM	348	CD1	ILE	76	43. 435	41.647	14.844	1.00 45.53	Α	C
ATOM	349	C	ILE	76	39.446	38.786	15.964	1.00 42.80	Α	C
ATOM	350	0	ILE	76	39.127	38. 322	14.868	1.00 41.85	Α	0
ATOM	351	Ň	LEU	77	38.574	39.045	16.930	1.00 40.36	Α	N
ATOM	352	CA	LEU	77	37.151	38.801	16.772	1.00 37.65	Α	C
ATOM	353	CB	LEU	77	36.636	37.948	17.933	1.00 36.65	Α	C
ATOM	354	CG	LEU	77	37.363	36.642	18. 264	1.00 35.22	Α	C
ATOM	355	CD1		77	36.600	35.926	19. 361	1.00 34.43	Α	C
ATOM	356	CD2		77	37.459	35.756	17.039	1.00 34.38	Α	C
ATOM	357	C	LEU	77	36.365	40.107	16.730	1.00 35.91	Α	C
ATOM	358	0	LEU	77	36.801	41.123	17. 269	1.00 35.03	Α	0
ATOM	359	N	VAL	78	35.212	40.069	16.070	1.00 34.19	Α	N
ATOM	360	CA	VAL	78	34.330	41.226	15.981	1.00 31.96	Α	C
ATOM	361	CB	VAL	78	34.078	41.628	14.509	1.00 31.90	Α	C
ATOM	362	CG1	VAL	78	33.612	40.420	13.704	1.00 31.34	Α	C
ATOM	363	CG2	VAL	78	33.048	42.747	14.442	1.00 31.56	Α	С
ATOM	364	C	VAL	78	33.011	40.838	16.667	1.00 31.15	A	C
ATOM	365	0	VAL	78	32.404	39.819	16.336	1.00 30.46	Α	0
ATOM	366	N	PHE	79	32.582	41.643	17.636	1.00 29.90	A	N
ATOM	367	CA	PHE	79	31.358	41.357	18.379	1.00 28.93	Α	C
ATOM	368	CB	PHE	79	31.618	41.420	19.888	1.00 29.14	A	C
ATOM	369	CG	PHE	79	32.357	40. 238	20.440	1.00 28.39	A	C
ATOM	370	CD1	PHE	79	33.704	40.051	20. 165	1.00 28.20	A	C
ATOM	371	CD2	PHE	79	31.701	39.314	21. 243	1.00 27.22	A	C
ATOM	372	CE1	PHE	79	34. 391	38.956	20.684	1.00 28.13	A	C
ATOM	373	CE2	PHE	79	32.374	38. 219	21.764	1.00 27.53	A	C
ATOM	374	CZ	PHE	79	33. 725	38.040	21.483	1.00 27.59	A	C
ATOM	375	C	PHE	79	30. 186	42. 281	18.091	1.00 29.06	A	C
ATOM	376	0	PHE	79	30. 354	43. 487	17.912	1.00 28.29	A	0
ATOM	377	N	ASN	80	28.990	41.704	18.058	1.00 27.80	Ą	N
ATOM	378	CA	ASN	80	27. 791	42. 499	17.864	1.00 27.95	A	C
ATOM	379	CB	ASN	80	26.681	41.670	17. 209	1.00 27.03	A	C
ATOM	380	CG	ASN	80	25. 354	42. 412	17.160	1.00 27.26	A	C
ATOM	381	0D1		80	24.679	42. 587	18. 182	1.00 26.87	A	0
ATOM	382		ASN	80	24. 980	42.866	15. 974	1.00 26.94	A	N
ATOM	383	C	ASN	80	27.405	42.874	19. 289	1.00 28.06	A	C
ATOM	384	0	ASN	80	26. 991	42.024	20.066	1.00 28.61	A	0
ATOM	385	N	ALA	81	27.566	44. 140	19. 642	1.00 28.12	A	N
ATOM	386	CA	ALA	81	27. 250	44. 579	20. 991	1.00 29.16	A	C
ATOM	387	CB	ALA	81	27. 503	46. 075	21. 119	1.00 27.93	A	C
ATOM	388	C	ALA	81	25.818	44. 254	21.413	1.00 31.04	A	0 C
ATOM	389	0	ALA	81	25. 582	43. 769	22. 527	1.00 30.16 1.00 32.39	A A	N
ATOM	390	N	GLU	82	24.870	44. 506	20. 516 20. 809	1.00 32.39	A A	C
ATOM	391	CA	GLU	82	23.461	44. 282	40. 009	1.00 34.40	n	C

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			FIG. 4-9	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	392 CB GLU 393 CG GLU 394 CD GLU 395 OE1 GLU 396 OE2 GLU 397 C GLU 398 O GLU 399 N TYR 400 CA TYR 401 CB TYR 401 CB TYR 402 CG TYR 403 CD1 TYR 404 CE1 TYR 405 CD2 TYR 406 CE2 TYR 407 CZ TYR 408 OH TYR 409 C TYR	82 82 82 82 82 82 83 83 83 83 83 83 83 83	21. 115       44. 827       19. 968       1. 00       40. 49       42. 42. 42. 42. 42. 42. 42. 42. 42. 42.	A C A C A O A O A O A O A O A O A C A C A C A C A C A C A C A C A C A C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	409 C TYR 410 0 TYR 411 N GLY 412 CA GLY 413 C GLY 414 0 GLY 415 N ASN 416 CA ASN 417 CB ASN 418 CG ASN 419 OD1 ASN 420 ND2 ASN 421 C ASN 422 0 ASN 423 N SER 424 CA SER	83 84 84 84 85 85 85 85 85 85 86 86	24. 396       38. 511       21. 934       1. 00       32. 91         25. 777       40. 217       21. 476       1. 00       33. 53         26. 933       39. 513       21. 995       1. 00       33. 40         27. 454       38. 395       21. 114       1. 00       33. 92         28. 329       37. 639       21. 530       1. 00       33. 21         26. 918       38. 269       19. 904       1. 00       35. 26         27. 388       37. 233       18. 993       1. 00       37. 43         26. 258       36. 780       18. 072       1. 00       38. 34         25. 764       37. 878       17. 166       1. 00       40. 02         25. 694       39. 040       17. 561       1. 00       39. 96         25. 394       37. 496       15. 950       1. 00       41. 91         28. 556       37. 794       18. 188       1. 00       38. 80         28. 687       39. 011       18. 035       1. 00       40. 05         29. 410       36. 920       17. 670       1. 00       39. 14         30. 565       37. 393       16. 926       1. 00       39. 30	A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	425 CB SER 426 OG SER 427 C SER 428 O SER 429 N SER 430 CA SER 431 CB SER 432 OG SER 432 OG SER 433 C SER 434 O SER 435 N VAL 436 CA VAL 437 CB VAL 438 CG1 VAL 439 CG2 VAL 440 C VAL	86 86 86 87 87 87 87 87 88 88 88	31. 723       37. 587       17. 895       1. 00       38. 90         32. 041       36. 356       18. 515       1. 00       35. 77         31. 023       36. 482       15. 798       1. 00       39. 94         30. 287       35. 622       15. 323       1. 00       41. 15         32. 264       36. 701       15. 382       1. 00       40. 59         32. 916       35. 929       14. 333       1. 00       40. 98         32. 152       36. 053       13. 010       1. 00       39. 16         31. 727       37. 376       12. 789       1. 00       39. 90         34. 353       36. 433       14. 194       1. 00       41. 10         34. 691       37. 517       14. 682       1. 00       41. 07         35. 206       35. 646       13. 548       1. 00       41. 07         36. 596       36. 043       13. 402       1. 00       41. 43         37. 502       34. 836       13. 114       1. 00       41. 29         38. 949       35. 295       13. 013       1. 00       40. 28	A C A O A C A O A C A C A C A C A C A C

			FIG. 4-10	(000000					
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	441 0 VAL 442 N PHE 443 CA PHE 444 CB PHE 445 CG PHE 446 CD1 PHE 447 CD2 PHE 448 CE1 PHE 449 CE2 PHE 450 CZ PHE 451 C PHE 452 O PHE 453 N LEU 454 CA LEU 455 CB LEU 456 CG LEU 457 CD1 LEU 458 CD2 LEU 459 C LEU 459 C LEU 460 O LEU 461 N GLU 461 N GLU 462 CA GLU 463 CB GLU 464 CG GLU 465 CD GLU 466 OE1 GLU 467 OE2 GLU 468 C GLU 469 O GLU 470 N ASN 471 CA ASN	88 89 89 89 89 89 89 89 89 90 90 90 91 91 91 91 91 91 91 91	FIG. 4 - 10  36. 548	(Continued)  A					
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	472 CB ASN 473 CG ASN 474 OD1 ASN 475 ND2 ASN 476 C ASN 477 O ASN 478 N SER 479 CA SER 480 CB SER 481 OG SER 481 OG SER 482 C SER 483 O SER 484 N THR 485 CA THR 486 CB THR 487 OG1 THR 488 CG2 THR 489 C THR	92 92 92 92 92 92 93 93 93 93 94 94 94 94	45. 881	A C A O A N A C A O A O A O A O A O A O A O A O A O					

(Cont										(Continued)
					FIC	G. 4	- 11			(00110111
4001	400	^	TIID	0.4	40 009	35. 295	7. 303	1.00 61.92	Α	0
ATOM	490	0	THR	94 05	48. 882 48. 908	36. 013	9. 426	1.00 62.57	A	Ň
ATOM	491	N	PHE	95 05	50. 290	36. 473	9. 322	1.00 63.04	Ä	Č
ATOM	492	CA	PHE PHE	95 95	50. 414	37. 889	9. 897	1.00 61.98	Ä	č
ATOM	493	CB	PHE	95	49. 456	38. 869	9. 289	1.00 61.01	A	Č
ATOM	494	CG CD1		· 95	48. 248	39. 155	9. 911	1.00 60.97	A	č
ATOM	495	CD1		95	49. 742	39. 473	8.073	1.00 60.73	A	Č
ATOM	496	CE1		95	47. 337	40.026	9. 330	1.00 60.46	A	Č
ATOM	497 498	CE2		95	48. 838	40. 343	7. 483	1.00 60.09	Ä	Ċ
ATOM ATOM	490 499	CZ	PHE	95	47. 633	40.621	8. 113	1.00 61.07	Ä	Č
ATOM	500	C	PHE	95	51.346	35. 571	9. 956	1.00 63.20	Ä	C
ATOM	500 501	0	PHE	95	52. 178	36. 035	10.736	1.00 63.66	Ā	0
ATOM	502	N	ASP	96	51. 323	34. 288	9.611	1.00 63.37	Α	N
ATOM	503	CA	ASP	96	52. 298	33. 347	10.149	1.00 64.05	Α	C
ATOM	504	CB	ASP	96	51.771	31.913	10.044	1.00 65.11	Α	C
ATOM	505	CG	ASP	96	50. 747	31.589	11.115	1.00 65.73	Α	C
ATOM	506	0D1		96	49.758	32.342	11.240	1.00 66.41	Α	0
ATOM	507	OD2		96	50. 929	30.580	11.829	1.00 65.32	Α	0
ATOM	508	C	ASP	96	53. 621	33.470	9.399	1.00 63.82	Α	C
ATOM	509	0	ASP	96	54.696	33. 433	10.001	1.00 64.05	Α	0
ATOM	510	N	GLU	97	53. 540	33.619	8.083	1.0062.95	Α	N
ATOM	511	CA	GLU	97	54.740	33.754	7.271	1.00 62.73	Α	C
ATOM	512	CB	GLU	97	54. 596	32.964	5.965	1.00 65.91	Α	С
ATOM	513	CG	GLU	97	54.954	31.478	6.064	1.00 68.84	Α	C
ATOM	514	CD	GLU	97	53. 945	30.657	6.850	1.00 70.64	Α	C
ATOM	515	0E1	GLU	97	54.160	29.432	6.988	1.00 71.38	A	0
ATOM	516	0E2	GLU	97	52.939	31.228	7.325	1.00 71.80	A	0
ATOM	517	C	GLU	97	55.039	35. 220	6.963	1.00 60.82	A	C
ATOM	518	0	GLU	97	55.462	35. 557	5.857	1.00 60.31	A	0
ATOM	519	N	PHE	98	54.818	36.084	7. 952	1.00 58.68	A	N
ATOM	520	CA	PHE	98	55.067	37. 513	7. 797	1.00 55.93	A	C
ATOM	521	CB	PHE	98	54. 200	38. 319	8. 765	1.00 55.47	A	C
ATOM	522	CG		98	54. 272	39. 801	8. 542		A	C
ATOM	523		PHE	98	53. 712	40. 372	7. 404	1.00 53.07	A	C
ATOM	524		PHE	98	54. 931	40.624	9.450	1.00 53.89	A	C C C C
ATOM	525		PHE	98	53.808	41.743	7.173	1.00 53.28 1.00 53.18	A A	C
ATOM	526		PHE	98	55.032	41.997	9. 226 8. 087	1.00 53.16	A	C
ATOM	527	CZ	PHE	98	54.470 56.536	42. 556 37. 820	8.060	1.00 54.61	A	Č
ATOM	528	C	PHE	98 98		38. 878	7. 686	1.00 53.80	A	ŏ
ATOM	529	0	PHE	98 99	57. 041 57. 215	36. 885	8. 713	1.00 53.50	A	N
ATOM	530 531	N CA	GLY GLY	99	58. 624	37.061	9.004	1.00 52.08	A	Ĉ
ATOM	532	CA	GLI	99	58. 908	38. 188	9.972	1.00 51.18	A	č
ATOM ATOM	533	Ö	GLY	99	60. 037	38. 673	10.051	1.00 51.30	A	ŏ
ATOM	534	N	HIS	100	57. 884	38.607	10.706	1.00 50.21	A	Ň
ATOM	535	CA	HIS	100	58. 026	39. 681	11.686	1.00 49.15	A	Ċ
ATOM	536	CB	HIS	100	57.810	41.049	11.028	1.00 48.84	A	Č
ATOM	537	CG	HIS	100	58. 850	41.410	10.014	1.00 49.22	Α	С
ATOM	538		HIS	100	58. 759	41.613	8.679	1.00 49.42	Α	C

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					FΙ	G. 4	- 12			(002222	•
ATOM	539	ND1	214	100	60. 170	41.627	10. 346	1.00 49.70	A	N	
ATOM	540	CE1		100	60. 848	41.951	9. 259	1.00 49.10	A	Ċ	
ATOM	541	NE2		100	60.015	41.949	8. 234	1.00 50.14	A	N	
ATOM	542		HIS	100	57.011	39. 511	12. 810	1.00 48.06	A	Ċ	
ATOM	543		HIS	100	55. 920	38. 977	12.602	1.00 47.18	Ä	Ö	
ATOM	544		SER	101	57. 377	39. 958	14. 005	1.00 46.66	Ā	N	
ATOM	545		SER	101	56. 467	39.878	15. 136	1.00 45.88	Ä	Ċ	
ATOM	546		SER	101	57. 247	39. 802	16. 446	1.00 47.41	A	Č	
ATOM	547		SER	101	58. 118	38. 685	16. 447	1.00 51.04	A	Ö	
ATOM	548		SER	101	55.617	41.142	15. 112	1.00 44.53	Ä	Č	
ATOM	549		SER	101	56.133	42. 248	15. 282	1.00 44.41	A	Ö	
ATOM	550		ILE	102	54. 319	40.976	14. 877	1.00 41.90	A	N	
ATOM	551		ILE	102	53. 409	42.109	14. 833	1.00 38.95	Ā	Č	
ATOM	552		ILE	102	52.106	41.732	14.117	1.00 38.54	Α	С	
ATOM	553	CG2		102	51.153	42.926	14. 103	1.00 38.18	Ā	Č	
ATOM	554	CG1		102	52.424	41.288	12.686	1.00 37.65	A	C	
ATOM	555	CD1		102	51.243	40.733	11.937	1.00 37.11	Α	C	
ATOM	556		ILE	102	53. 104	42.597	16.244	1.00 38.00	Α	C	
ATOM	557		ILE	102	52.441	41.919	17.024	1.00 38.06	Α	0	
ATOM	558		ASN	103	53.601	43.787	16.556	1.00 37.54	Α	N	
ATOM	559	CA .	ASN	103	53. 429	44.399	17.867	1.00 36.65	Α	С	
ATOM	560	CB .	ASN	103	54. 437	45.530	18.039	1.00 37.69	Α	C	
ATOM	561	CG .	ASN	103	54. 219	46.308	19.315	1.00 39.56	Α	C	
ATOM	562	OD1 .	ASN	103	54.655	45.891	20.388	1.00 43.00	Α	0	
ATOM	563	ND2	ASN	103	<b>53. 528</b>	47.439	19. 211	1.00 38.34	Α	N	
ATOM	564	C .	ASN	103	52.031	44. 953	18.116	1.00 35.79	Α	C	
ATOM	565		ASN	103	51.532	44. 910	19. 237	1.00 35.79	Α	0	
ATOM	566		ASP	104	51.405	45. 490	17.078	1.00 34.43	Α	N	
ATOM	567		ASP	104	50.079	46.067	17. 236	1.00 33.27	Α	C	
ATOM	568		ASP	104	50. 200	47. 388	17. 998	1.00 34.38	Α	С	
ATOM	569		ASP	104	48. 896	47.823	18.618	1.00 34.79	Α	C	
ATOM	570	0D1		104	48. 916	48.699	19. 509	1.00 33.92	Α	0	
ATOM	571	OD2 .		104	47. 852	47. 289	18. 207	1.00 36.80	A	0	
ATOM	572		ASP	104	49. 436	46. 281	15.865	1.00 32.32	A	C	
ATOM	573		ASP	104	50. 124	46. 326	14.850	1.00 32.03	A	0	
ATOM	574		TYR	105	48. 118	46.405	15. 834	1.00 31.15	A	N	
ATOM	575		TYR	105	47. 421	46. 580	14. 570	1.00 32.24	A	C	
ATOM	576		TYR	105	46. 672	45. 296	14. 223	1.00 34.70	A	C	
ATOM	577		TYR	105	45. 443	45. 088	15.072	1.00 37.73	A	C	
ATOM	578	CD1		105	44. 220	45.636	14.698	1.00 37.51	A	C C C	
ATOM	579	CE1		105	43. 098	45. 510	15. 506	1.00 40.43	A	C	
ATOM ATOM	580 581	CD2		105	45.514	44. 395	16. 284	1.00 39.06	A	C	
ATOM	582	CE2	TYR	105	44. 393	44. 263 44. 829	17. 103 16. 705	1.00 40.75 1.00 41.19	A	C	
ATOM	583		TYR	105 105	43. 191 42. 088	44. 829	17. 519	1.00 41.19	A A	0	
ATOM	584		TYR	105	46.441	44. 755	14. 638	1.00 44.27	A	C	
ATOM	585		TYR	105	46. 133	48. 249	15. 715	1.00 31.43	A	0	
ATOM	586		SER	106	45. 940	48. 152	13. 479	1.00 30.16	A	N	
ATOM	587		SER	106	45. 000	49. 261	13. 415	1.00 29.23	A	Č	
MION	001	On	OUI.	100	40.000	70.001	10. 110	1.00 20.20	11	v	

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					FI	G. 4	- 13			(Con
ATOM	E00	CD	SER	106	45. 762	50. 588	13. 457	1.00 29.81	A	С
ATOM	588 589	CB OG	SER	106	44. 924	51.668	13.090	1.00 32.32	A	Ŏ
ATOM ATOM	590	C	SER	106	44. 146	49. 187	12. 157	1.00 27.65	A	Č
ATOM	591	0	SER	106	44. 657	49.085	11.051	1.00 28.57	A	Ō
ATOM	592	N	ILE	107	42. 835	49. 240	12. 331	1.00 28.07	A	N
ATOM	593	CA	ILE	107	41.922	49.171	11. 198	1.00 27.70	Ā	C
ATOM	594	CB	ILE	107	40. 648	48. 352	11.544	1.00 25.83	Α	C
ATOM	595	CG2	ILE	107	39. 557	48. 620	10.522	1.00 26.35	Α	C
ATOM	596	CG1	ILE	107	40. 970	46.859	11.551	1.00 25.36	Α	C
ATOM	597	CD1	ILE	107	41.980	46.457	12.568	1.00 23.77	Α	C
ATOM	598	C	ILE	107	41.502	50.556	10.743	1.00 26.85	Α	C
ATOM	599	0	ILE	107	41.178	51.420	11.557	1.00 26.55	Α	0
ATOM	600	N	SER	108	41.507	50.757	9. 432	1.00 27.57	Α	N
ATOM	601	CA	SER	108	41.113	52.035	8.862	1.00 26.94	A	C
ATOM	602	CB	SER	108	41.331	52.033	7.346	1.00 26.30	A	C
ATOM	603	0G	SER	108	40. 458	51.119	6.700	1.00 23.63	A	0
ATOM	604	C	SER	108	39. 639	52. 253	9.169	1.00 27.22	A	C
ATOM	605	0	SER	108	38. 857	51.310	9. 206	1.00 26.49	A	0
ATOM	606	N	PRO	109	39. 241	53. 506	9. 393	1.00 28.50	A	N
ATOM	607	CD	PR0	109	40. 025	54. 751	9. 302	1.00 29.19	A	C
ATOM	608	CA	PRO	109	37. 839	53. 794	9.693	1.00 29.39	A	C
ATOM	609	CB	PRO	109	37. 745	55. 294	9. 439	1.00 30.19	A	C C
ATOM	610	CG	PRO	109	39.080	55. 775	9.899	1.00 28.76	A	C
ATOM	611	C	PRO	109	36.842	52. 993 52. 425	8. 852 9. 391	1.00 29.21 1.00 30.65	A A	0
ATOM	612	0 N	PRO	109	35. 901 37. 046	52. 425 52. 935	7. 540	1.00 30.03	A	N
ATOM	613	N CA	ASP ASP	110 110	36. 120	52. 202	6.676	1.00 28.98	A	Č
ATOM ATOM	614 615	CB	ASP	110	36. 241	52. 673	5. 226	1.00 27.99	A	č
ATOM	616	CG	ASP	110	37. 613	52.432	4. 648	1.00 27.91	A	Č
ATOM	617	0D1	ASP	110	38. 226	51.397	4. 976	1.00 28.41	A	ŏ
ATOM	618		ASP	110	38. 075	53. 274	3.852	1.00 29.14	Ä	Õ
ATOM	619	C	ASP	110	36. 280	50.685	6.715	1.00 29.06	A	С
ATOM	620	Ŏ	ASP	110	35. 635	49.971	5.953	1.00 30.84	Α	0
ATOM	621	Ň	GLY	111	37. 148	50.196	7.589	1.00 28.25	Α	N
ATOM	622	CA	GLY	111	37. 349	48.766	7.702	1.00 28.14	Α	C
ATOM	623	C	GLY	111	37. 890	48.064	6.470	1.00 29.53	Α	C
ATOM	624	0	GLY	111	37. 856	46.837	6.402	1.00 31.16	Α	0
ATOM	625	N	GLN	112	38. 405	48.818	5.503	1.00 29.61	A	N
ATOM	626	CA	GLN	112	38. 946	48. 217	4. 287	1.00 29.74	A	C
ATOM	627	CB	GLN	112	38. 777	49.171	3. 109	1.00 29.94	A	C
ATOM	628	CG	GLN	112	37. 336	49.442	2. 749	1.00 31.79	A	C
ATOM	629	CD	GLN	112	37. 191	50. 234	1.465	1.00 33.24	A	C
ATOM	630	0E1		112	36.075	50.474	1.004	1.00 36.27	A	0 N
ATOM	631	NE2		112	38. 314	50.644	0.880	1.00 31.73	A A	N C
ATOM	632	C	GLN	112	40. 415	47.813	4. 390 3. 631	1.00 30.31 1.00 31.75	A A	0
ATOM	633	0 N	GLN	112	40.888	46. 971 48. 418	5. 320	1.00 31.73	A	N
ATOM	634	N CA	PHE	113	41.141	48. 106	5. 486	1.00 28.23	A	C
ATOM	635	CA CB	PHE PHE	113 113	42. 551 43. 428	49. 207	4. 900	1.00 24.48	A	Č
ATOM	636	UD	LUC	110	40.440	4J. 4U (	1. 000	1.00 21.10	11	J

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FIG. 4 -	1	4
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										C
ATOM	637	CG	PHE	113	43. 193	49. 467	3. 458	1.00 22.98	A	C
ATOM	638	CD1	PHE	113	42. 164	50. 301	3.052	1.00 20.83	Α	C
ATOM	639		PHE	113	44.010	48.880	2.496	1.00 23.28	Α	C
ATOM	640	CE1		113	41.950	50. 552	1.709	1.00 20.79	Α	C
				113	43. 805	49. 121	1. 150	1.00 22.78	Α	C
ATOM	641		PHE					1.00 22.13	Ä	č
ATOM	642		PHE	113	42. 771	49. 962	0.754			C
ATOM	643	С	PHE	113	42.919	47.974	6.947	1.00 30.31	A	
ATOM	644	0	PHE	113	42. 234	48.511	7.827	1.00 31.09	A	0
ATOM	645	N	ILE	114	44.013	47.260	7. 196	1.00 29.70	Α	N
ATOM	646		ILE	114	44. 521	47.092	8.542	1.00 30.73	Α	C
ATOM	647		ILE	114	44. 342	45.642	9.075	1.00 31.72	Α	С
	648		ILE	114	44. 804	44. 633	8. 042	1.00 33.03	Α	С
ATOM				114	45. 128	45. 475	10. 381	1.00 32.62	Ā	Č
ATOM	649		ILE				11.007	1.00 32.02	A	č
ATOM	650		ILE	114	45.028	44. 092				Č
ATOM	651	C	ILE	114	46.000	47. 457	8. 509	1.00 30.59	A	
ATOM	652	0	ILE	114	46. 754	46.974	7.661	1.00 28.76	A	0
ATOM	653	N	LEU	115	46.388	48. 343	9. 423	1.00 30.68	A	N
ATOM	654	CA	LEU	115	47. 759	48.814	9. 543	1.00 29.92	A	C
ATOM	655		LEU	115	47.769	50. 257	10.053	1.00 30.35	Α	С
ATOM	656		LEU	115	49. 135	50.941	10.131	1.00 31.72	A	C
ATOM	657·	CD1		115	49.668	51.147	8.718	1.00 33.17	Α	С
ATOM	658	CD2		115	49.018	52. 271	10.857	1.00 30.77	Ā	C
				115	48. 481	47. 911	10.530	1.00 29.61	A	Č
ATOM	659		LEU					1.00 23.01	A	ŏ
ATOM	660		LEU	115	48. 127	47. 861	11.707			
ATOM	661		LEU	116	49. 484	47. 188	10.048	1.00 28.74	A	N
ATOM	662		LEU	116	50. 245	46. 278	10.891	1.00 28.06	A	C
ATOM	663	CB	LEU	116	50.624	45.023	10.103	1.00 30.07	A	C
ATOM	664	CG	LEU	116	49. 450	44. 251	9.481	1.00 30.51	Α	C
ATOM	665	CD1	LEU	116	49. 978	43. 171	8.570	1.00 31.10	Α	C
ATOM	666	CD2		116	48. 583	43.644	10.573	1.00 30.99	Α	C
ATOM	667	C	LEU	116	51.489	46.997	11.363	1.00 28.28	Α	C
ATOM	668	ŏ	LEU	116	52. 145	47.690	10.591	1.00 30.37	Α	0
ATOM	669	N	GLU	117	51.813	46. 824	12.634	1.00 27.78	Ä	N
	670	CA	GLU	117	52.962	47. 484	13. 227	1.00 26.58	Ä	C
ATOM					52. 476	48. 358	14. 382	1.00 25.51	A	č
ATOM	671	CB	GLU	117				1.00 23.69	A	Č
ATOM	672	CG	GLU	117	53. 510	49. 241	15. 036		_	_
ATOM	673	CD	GLU	117	52.897	50.076	16. 138	1.00 27.72	A	C
ATOM	674	0E1	GLU	117	52. 732	49. 572	17. 268	1.00 29.08	A	0
ATOM	675	0E2	GLU	117	52.552	51. 242	15.868	1.00 30.62	A	0
ATOM	676	С	GLU	117	53.997	46. 491	13. 738	1.00 27.81	Α	C
ATOM	677	0	GLU	117	53.666	45.586	14.506	1.00 27.41	Α	0
ATOM	678	N	TYR	118	55. 247	46.663	13.313	1.00 27.75	Α	N
ATOM	679	CA	TYR	118	56.327	45.796	13.765	1.00 29.68	Α	C
ATOM	680	CB	TYR	118	56.473	44.586	12.837	1.00 29.52	Α	C
	681	CG	TYR	118	56. 819	44. 903	11.402	1.00 28.58	Ā	Č
ATOM			TYR	118	55. 922	45. 572	10. 573	1.00 29.31	Ä	Č
ATOM	682					45. 838	9. 239	1.00 28.13	A	č
ATOM	683		TYR	118	56. 236			1.00 28.13	A	Č
ATOM	684		TYR	118	58.040	44.510	10.864			Č
ATOM	685	CEZ	TYR	118	58.362	44.769	9. 541	1.00 27.91	Α	C

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				FIG	6. 4 -	15			
ATOM	686 CZ	TYR	118		45. 431	8. 735	1.00 28.04 1.00 29.86	A A	C 0
ATOM	687 OH	TYR	118		45. 681 46. 572	7. 427 13. 863	1.00 29.80	A	C
MOTA	688 C	TYR TYR	118 118		47. 763	13.550	1.00 32.24	A	Ö
ATOM ATOM	689 O 690 N	ASN	119		45. 903	14. 295	1.00 32.40	A	N
ATOM	691 CA	ASN	119		46. 557	14.459	1.00 33.64	Α	C
ATOM	692 CB	ASN	119		47. 128	13.131	1.00 35.42	Α	C
ATOM	693 CG	ASN	119		46.066	12.207	1.00 36.36	Α	C
ATOM		1 ASN	119		45. 306	12.584	1.00 37.66	A	0
ATOM		2 ASN	119		46.021	10.983	1.00 37.41	A	N
ATOM	696 C	ASN	119		47. 697	15.464	1.00 34.07	A	C
ATOM	697 0	ASN	119		48. 719	15.348	1.00 34.50	A	0 N
ATOM	698 N	TYR	120		47. 514	16.443	1.00 33.92	A	N C
ATOM	699 CA	TYR	120		48. 517 48. 097	17. 472 18. 290	1.00 33.38 1.00 33.40	A A	C
ATOM	700 CB	TYR	120		48. 870	19.569	1.00 33.40	A	Č
ATOM	701 CG 702 CD	TYR 1 TYR	120 120		48. 582	20.715	1.00 33.37	A	č
ATOM ATOM		1 TYR	120		49. 284	21.902	1.00 34.88	Ä	Č
ATOM		2 TYR	120		49. 886	19.636	1.00 33.62	Ä	Č
ATOM		2 TYR	120		50. 596	20.813	1.00 32.73	Α	С
ATOM	706 CZ		120		50. 289	21.944	1.00 35.24	A	C
ATOM	707 OH		120		50.977	23.121	1.00 37.51	Α	0
ATOM	708 C	TYR	120		48. 772	18.396	1.00 33.12	A	C
ATOM	709 0	TYR	120		47. 849	19.007	1.00 33.80	A	0
ATOM	710 N	VAL	121		50. 038	18.491	1.00 31.69	A	N C
ATOM	711 CA		121		50. 446	19.343	1.00 30.32	A	C
ATOM	712 CB		121		50.845	18.504	1. 00 30. 75 1. 00 28. 68	A A	C C
ATOM	713 CG		121		51. 140 49. 736	19.420 17.525	1.00 29.00	A	Č
ATOM	714 CG 715 C	2 VAL VAL	121 121		51.645	20. 190	1.00 29.83	A	č
ATOM ATOM	716 0	VAL	121		52. 738	19.670	1.00 30.47	A	ŏ
ATOM	717 N	LYS	122		51.434	21.495		A	N
ATOM		LYS	122		52.488		1.00 27.02	Α	C
ATOM	719 CE		122		51.910	23.799	1.00 23.73	Α	C
ATOM	720 CG		122		52.954	24.819	1.00 21.38	A	C
ATOM	721 CI		122		52. 354	26. 191	1.00 20.47	A	C
ATOM	722 CE		122		53. 406	27.174	1.00 19.23	A	C
ATOM	723 N2		122		54. 510	27.346	1.00 18.20	A	N C
ATOM	724 C	LYS	122		53. 635	22. 528 22. 315	1.00 27.64 1.00 28.10	A A	0
ATOM	725 O	LYS	122 123	62. 658 60. 947	53. 464 54. 813	22. 860	1.00 27.23	A	N N
ATOM	726 N 727 CA	GLN GLN	123	61.791	55. 979	23. 071	1.00 27.82	A	Ċ
ATOM ATOM	728 CI		123	61.607	57. 034	21.974	1.00 28.29	A	Č
ATOM	729 C		123	62. 537	58. 227	22. 164	1.00 28.94	A	C ·
ATOM	730 CI		123	62.339	59.308	21.131	1.00 29.91	A	C
ATOM		E1 GLN	123	61.218	59.744	20.889	1.00 32.37	A	0
ATOM	732 NI	E2 GLN	123	63. 431	59. 761	20. 524	1.00 30.94	A	N
ATOM	733 C	GLN	123	61.385	56. 545	24. 428	1.00 26.89	A	C 0
ATOM	734 0	GLN	123	61.837	56. 036	25. 453	1.00 27.03	A	U

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ATOM	735	N	TRP	124	60.522	57.564	24.444	1.00 23.89	· A	N
	736	CA	TRP	124	60.081	58. 149	25.713	1.00 24.21	Α	C
ATOM					59. 886	59. 665	25. 572	1.00 23.25	Α	C
ATOM	737	CB	TRP	124			24. 934	1.00 19.79	A	Č
ATOM	738	CG	TRP	124	61.052	60. 357				č
ATOM	739	CD2	TRP	124	62.444	60.061	25. 127	1.00 19.03	A	Č
ATOM	740	CE2	TRP	124	63. 175	60. 913	24.270	1.00 19.13	Α	C
ATOM	741		TRP	124	63.143	59.157	25.936	1.00 15.51	Α	C
		CD1	TRP	124	60. 999	61.350	24.006	1.00 18.84	Α	C
ATOM	742				62. 270	61.690	23. 597	1.00 18.74	Ä	N
ATOM	743	NE1	TRP	124				1.00 13.14	A	Ċ
ATOM	744	CZ2	TRP	124	64. 571	60.885	24. 196			C
ATOM	745	CZ3	TRP	124	64.533	59.129	25.860	1.00 15.41	A	C
ATOM	746	CH2	TRP	124	65.229	59.986	24.996	1.00 17.07	Α	C
ATOM	747	C	TRP	124	58. 787	57.494	26.209	1.00 24.57	Α	C
ATOM	748	ő	TRP	124	58. 490	56.350	25.861	1.00 25.71	Α	0
			ARG	125	58.013	58. 218	27.013	1.00 24.36	Α	N
ATOM	749	N				57. 670	27. 567	1.00 23.36	A	Ĉ
ATOM	750	CA	ARG	125	56. 779					
ATOM	751	CB	ARG	125	56. 189	58.621	28.609	1.00 23.81	A	C
ATOM	752	CG	ARG	125	54.953	58.065	29.308	1.00 23.85	A	C
ATOM	753	CD	ARG	125	54.273	59. 129	30.143	1.00 26.24	Α	С
ATOM	754	NE	ARG	125	55.090	59.579	31. 269	1.00 25.99	Α	N
ATOM	755	CZ	ARG	125	55. 293	58.867	32. 372	1.00 26.04	Α	С
			ARG	125	56.051	59. 357	33. 347	1.00 24.42	A	N
ATOM	756	NH1					32. 500	1.00 25.19	A	N
ATOM	757	NH2	ARG	125	54.735	57.668				C
ATOM	758	C	ARG	125	55.706	57. 324	26. 541	1.00 24.00	A	
ATOM	759	0	ARG	125	54.935	56. 387	26. 752	1.00 25.04	A	0
ATOM	760	N	HIS	126	55.651	58.063	25.436	1.00 23.33	Α	N
ATOM	761	CA	HIS	126	54.649	57.800	24.403	1.00 22.86	Α	C
ATOM	762	CB	HIS	126	53.649	58.943	24.353	1.00 21.14	Α	C
ATOM	763	CG	HIS	126	52.987	59. 224	25.662	1.00 22.35	Α	C
	764	CD2		126	53.027	60. 316	26.463	1.00 21.51	Ā	C
ATOM					52. 137	58. 329	26. 274	1.00 22.03	A	Ň
ATOM	765	ND1	HIS	126					_	C
ATOM	766		HIS	126	51.679	58. 859	27. 395	1.00 23.59	A	
ATOM	767		HIS	126	52. 202	60.064	27. 532	1.00 22.48	A	N
ATOM	768	С	HIS	126	55.222	57. 599	22.995	1.00 24.43	Α	C
ATOM	769	0	HIS	126	54.599	56.947	22. 153	1.00 23.99	Α	0
ATOM	770	N	SER	127	56.401	58.163	22.744	1.00 23.89	Α	N
ATOM	771	ĊA	SER	127	57.039	58.072	21.434	1.00 24.38	Α	C
	772	CB	SER	127	58.050	59. 213	21. 267	1.00 23.49	Α	· C
ATOM						59. 311	22. 387	1.00 23.05	Ä	Ŏ
ATOM	773	0G	SER	127	58.909					č
ATOM	774	C	SER	127	57. 737	56. 748	21. 146	1.00 24.40	A	
ATOM	775	0	SER	127	58.167	56.050	22.061	1.00 26.55	A	0
ATOM	776	N	TYR	128	57.841	56.420	19.861	1.00 22.67	A	N
ATOM	777	CA	TYR	128	58. 501	55. 207	19. 403	1.00 22.06	Α	C
ATOM	778	CB	TYR	128	57. 787	53.962	19.928	1.00 21.99	Α	C
ATOM	779	CG	TYR	128	56.413	53. 712	19.331	1.00 22.49	Α	C
	780	CD1		128	55. 257	54. 112	20.003	1.00 23.20	Α	С
ATOM		CE1		128	53. 992	53. 857	19.487	1.00 19.81	A	Č
ATOM	781							1.00 13.01	A	č
ATOM	782		TYR	128	56. 267	53.049	18.109			Č
ATOM	783	CEZ	TYR	128	55.007	52. 791	17.580	1.00 20.87	Α	C

(Continued)

				FI	G. 4-	17			(OUL
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	812 Cl 813 Cl 814 C: 815 Ol 816 C 817 O 818 N	TYR TYR TYR TYR THR THR THR ALA ALA ALA ALA ALA ALA ALA ALA ALA AL	128 128 128 129 129 129 129 129 130 130 130 130 131 131 131 131 131 132 132 132 132 132	53. 872 52. 614 58. 509 57. 800 59. 328 59. 360 60. 723 61. 756 61. 025 59. 062 59. 168 58. 692 58. 356 57. 061 58. 277 57. 978 57. 759 58. 643 59. 995 56. 290 55. 651 55. 747 54. 341 53. 532 52. 692 52. 790 54. 714 54. 822 53. 856 53. 940 54. 071 54. 794 53. 028	53. 197 52. 946 55. 160 55. 922 54. 281 54. 125 54. 474 53. 676 55. 951 52. 675 51. 811 52. 411 51. 062 50. 636 50. 983 51. 988 49. 767 49. 540 48. 403 48. 822 49. 187 49. 351 49. 061 50. 357 51. 046 50. 842 51. 483 51. 908 52. 549 52. 333 52. 976 48. 418 48. 639 47. 604 46. 956	1. 7 18. 279 17. 776 17. 882 17. 224 17. 320 15. 874 15. 245 15. 844 15. 419 15. 580 16. 457 14. 337 13. 943 14. 618 12. 445 11. 740 11. 965 10. 556 10. 059 10. 022 10. 426 11. 397 9. 232 9. 029 9. 156 10. 507 11. 500 12. 735 10. 785 12. 016 12. 985 14. 198 7. 680 6. 712 7. 631 6. 392	1. 00 22. 39 1. 00 19. 88 1. 00 22. 84 1. 00 24. 63 1. 00 25. 24 1. 00 27. 54 1. 00 23. 01 1. 00 28. 79 1. 00 24. 85 1. 00 22. 29 1. 00 24. 54 1. 00 25. 98 1. 00 25. 98 1. 00 27. 15 1. 00 27. 62 1. 00 27. 62 1. 00 27. 62 1. 00 27. 15 1. 00 27. 62 1. 00 27. 15 1. 00 27. 62 1. 00 27. 16 1. 00 27. 56 1. 00 27. 17 1. 00 27. 16 1. 00	A A A A A A A A A A A A A A A A A A A	COCONCCOORCCOONCCCCCCCCCCCOONC
ATOM ATOM ATOM ATOM	819 C 820 C 821 C 822 O	A ASP B ASP G ASP D1 ASP	133 133 133 133	52. 629 53. 147 54. 541 54. 773	45. 519 45. 436 46. 042	6. 314 5. 721 4. 649	1.00 31.90 1.00 33.92 1.00 33.52	A A A	C C 0
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	823 O 824 C 825 O 826 N 827 C 828 C 829 C 830 C	D2 ASP ASP ILE A ILE B ILE G2 ILE G1 ILE D1 ILE	133 133 133 134 134 134 134 134 134	55. 400 51. 125 50. 467 50. 579 49. 144 48. 732 47. 221 49. 421 49. 232 48. 635	44. 756 46. 952 46. 384 47. 598 47. 652 48. 816 48. 954 50. 095 51. 277 46. 368	6. 321 6. 334 7. 202 5. 315 5. 157 4. 269 4. 289 4. 752 3. 846 4. 524	1. 00 35. 83 1. 00 30. 39 1. 00 33. 36 1. 00 28. 05 1. 00 25. 68 1. 00 23. 81 1. 00 22. 12 1. 00 23. 64 1. 00 22. 40 1. 00 27. 46	A A A A A A A A	0 0 N C C C C C

(6									(Continued)	
					FI	G. 4-	18			(00120111 010 01)
	000	^	II D	104	40 171	4E 004	3. 521	1.00 27.19	A	0
ATOM	833	0	ILE	134	49.171	45. 894	5. 127	1.00 21.19	A	N
ATOM	834	N	TYR	135	47.599	45. 805	4. 628	1.00 29.43	A	C
ATOM	835	CA	TYR	135	46.985	44. 588	4. 028 5. 772	1.00 33.34	A	č
ATOM	836	CB	TYR	135	46.800	43. 588	5. 343	1.00 35.25	A	č
ATOM	837	CG	TYR	135	46. 276	42. 242	3. 343 4. 731	1.00 33.00	A	č
ATOM	838		TYR	135	47.113	41.311	4. 731	1.00 37.89	A	č
ATOM	839		TYR	135	46.634	40.068		1.00 40.13	A	č
ATOM	840	CD2		135	44. 939	41.903	5. 535	1.00 37.34	A	Č
ATOM	841	CE2		135	44.444	40.666	5. 126	1.00 40.17	A	č
ATOM	842	CZ	TYR	135	45. 296	39.751	4.518	1.00 41.07	A	ŏ
ATOM	843	OH	TYR	135	44.811	38. 526	4. 105 4. 057	1.00 42.34	A	č
ATOM	844	C	TYR	135	45. 629 44. 870	44. 990 45. 705	4. 704	1.00 30.03	A	ŏ
ATOM	845	0	TYR	135		43. 703	2.841	1.00 20.31	A	Ň
ATOM	846	N	ASP	136	45.341	44. 837	2. 168	1.00 31.33	A	Č
ATOM	847	CA	ASP	136	44. 083 44. 323	44.857	0.655	1.00 33.02	A	Č
ATOM	848	CB	ASP	136		45.095	-0.146	1.00 32.01	A	č
ATOM	849	CG	ASP	136	43.057	45. 872	-0.140	1.00 33.01	A	ŏ
ATOM	850		ASP	136	43.115	44.500	0. 181	1.00 31.21	A	ő
ATOM	851	OD2		136	42.009	43. 797	2. 549	1.00 34.57	A	č
ATOM	852	C	ASP	136	43. 019 42. 822	43. 191	1.846	1.00 36.12	A	ŏ
ATOM	853	0	ASP	136		44.040	3.669	1.00 38.03	A	N
ATOM	854	N	LEU	137	42. 341 41. 303	43.150	4. 192	1.00 40.58	A	Č
ATOM	855 856	CA	LEU	137	40. 445	43. 130	5. 225	1.00 40.30	A	č
ATOM	856	CB	LEU	137 137	40. 443	43. 652	6. 477	1.00 40.10	A	Č
ATOM	857	CG	LEU LEU	137	40. 206	45. 257	7. 307	1.00 37.54	A	č
ATOM	858		LEU	137	40. 200	43. 243	7. 286	1.00 38.91	A	č
ATOM	859 860	CDZ	LEU	137	40. 392	42. 536	3. 134	1.00 42.88	A	č
ATOM	861	0	LEU	137	40. 038	41.362	3. 225	1.00 42.00	A	ŏ
ATOM	862	N	ASN	138	39. 997	43. 322	2. 141	1.00 45.41	A	N
ATOM ATOM	863	CA	ASN	138	39. 132	42. 796	1.093	1.00 48.50	A	Č
ATOM	864	CB	ASN	138	38. 537	43. 936	0. 264	1.00 49.71	A	č
ATOM	865	CG		138	37. 127		0. 697	1.00 50.83	A	č
ATOM	866		ASN	138	36. 873	44. 555	1.871	1.00 51.97	A	Ö
ATOM	867		ASN	138	36. 202	44. 296	-0. 254	1.00 52.74	A	N .
ATOM	868	C	ASN	138	39. 884	41.824	0. 191	1.00 49.47	A	Ċ
ATOM	869	0	ASN	138	39.642	40. 619	0. 240	1.00 50.62	A	Ö
ATOM	870	N	LYS	139	40.794	42. 346	-0.626	1.00 50.26	A	N
ATOM	871	CA	LYS	139	41.581	41.507	-1.526	1.00 51.09	A	Ċ
ATOM	872	CB	LYS	139	42.510	42. 374	-2.382	1.00 51.15	A	Ċ
ATOM	873	CG	LYS	139	41.785	43. 427	-3. 212	1.00 53.38	A	C
ATOM	874	CD	LYS	139	42. 753	44. 331	-3. 974	1.00 54.25	A	Č
ATOM	875	CE	LYS	139	43. 550	43. 564	-5.021	1.00 56.31	Ā	Č
ATOM	876	NZ	LYS	139	44. 447	44. 453	-5.817	1.00 56.39	A	N
ATOM	877	C	LYS	139	42.413	40. 528	-0.703	1.00 51.63	A	Ċ
ATOM	878	ŏ	LYS	139	43. 148	39. 708	-1.251	1.00 51.80	A	0
ATOM	879	N	ARG	140	42. 288	40.624	0.618	1.00 51.49	A	N
ATOM	880	CA	ARG	140	43. 025	39.768	1.534	1.00 51.71	A	C
ATOM	881	CB	ARG	140	42. 338	38. 408	1.642	1.00 53.88	Α	C
111 Out	001	OD)	, 410		12.000					

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									(Cont	tinued)	
					FIC	G. 4-	19				
ATOM	882 883		ARG ARG	140 140		38. 495 37. 128	2.157 2.211	1.00 57.36 1.00 60.02	A A	C C	
ATOM ATOM	884		ARG	140		36. 235	3. 142	1.00 62.76	Α	N	
ATOM	885	CZ	ARG	140	40. 633	34.950	3. 294	1.00 64.87	A	C	
ATOM	886	NH1		140	39. 661	34. 409	2.570	1.00 66.83	A	N	
ATOM	887	NH2		140	41. 298	34. 206	4.169	1.00 65.62	A A	N C	
ATOM	888		ARG	140	44. 464	39.603	1.066 1.002	1.00 50.29 1.00 50.21	A A	0	
ATOM	889		ARG	140	44. 992 45. 096	38. 496 40. 723	0.741	1.00 30.21	A	N	
ATOM	890 891		GLN GLN	141 141		40. 723	0. 268	1.00 48.70	Ä	Č	
ATOM ATOM	892		GLN	141		40.815	-1.260	1.00 50.32	A	Č	
ATOM	893		GLN	141		40.348	-1.909	1.00 55.02	Α	C	
ATOM	894		GLN	141		40.179	-3.413	1.00 57.33	Α	С	
ATOM	895	0E1		141	48.582	39.756	-4.088	1.00 57.97	A	0	
ATOM	896	NE2	GLN	141		40.509	-3.947	1.00 58.85	A	N	
ATOM	897		GLN	141		41.837	0.898	1.00 46.02	A	C	
ATOM	898	0	GLN	141		42.880	1. 274	1.00 45.33	A	0 N	
ATOM	899	N	LEU	142		41.610	1.013	1.00 43.34	A A	N C	
ATOM	900		LEU	142	49.505	42.578 41.824	1.605 2.296	1.00 41.50 1.00 41.17	A	C	
ATOM	901	CB CG	LEU LEU	142 142	50. 638 51. 489	42.501	3. 359	1.00 41.11	A	č	
ATOM ATOM	902 903	CD1		142	52. 443	41.463	3.922	1.00 42.24	Ä	Č	
ATOM	904	CD1		142	52. 254	43.677	2.772	1.00 42.66	Ä	Č	
ATOM	905	C	LEU	142	50.062	43. 498	0.520	1.00 40.87	Α	C	
ATOM	906	Ŏ	LEU	142	50.557	43.030	-0.506	1.00 41.57	Α	0	
ATOM	907	N	ILE	143	49.978	44.806	0.748	1.00 39.20	Α	N	
ATOM	908	CA	ILE	143	50.466	45. 789	-0.217	1.00 37.17	A	C	
ATOM	909	CB	ILE	143	49. 921	47. 202	0.104	1.00 36.58	A	C	
ATOM	910		ILE	143		48. 225	-0.874	1.00 35.56	A	C	
ATOM	911		ILE	143	48. 398	47. 197	0.030	1.00 34.64 1.00 37.28	A A	C	
ATOM	912		ILE	143	47. 777 51. 985	48. 494 45. 843	0.468 $-0.209$	1.00 37.28	A	Č	
ATOM	913	C 0	ILE ILE	143 143			0. 849	1.00 36.63	A	·ŏ	
ATOM ATOM	914 915	N	THR	143	52. 592	45.882	-1.386	1.00 35.40	A	Ň	_
ATOM	916	CA	THR	144	54.046	45.933	-1.459	1.00 35.79	Α	C	
ATOM	917	CB	THR	144	54.616	44.654	-2.124	1.00 35.59	Α	C	
ATOM	918	0G1		144	54.192	44.592	-3.491	1.00 37.13	Α	0	
ATOM	919	CG2	THR	144	54. 121	43.415	-1.403	1.00 33.21	A	C	
ATOM	920	C	THR	144	54. 515	47.152	-2.243	1.00 35.43	A	C	
ATOM	921	0	THR	144	55. 700	47. 311	-2.511	1.00 36.45	A	0 N	
ATOM	922	N	GLU	145	53. 577	48.015	-2.602	1.00 36.27 1.00 36.32	A A	N C	
ATOM	923	CA	GLU	145	53. 891 52. 962	49. 214 49. 297	-3. 369 -4. 586	1.00 38.36	A	Č	
ATOM	924 925	CB CG	GLU GLU	145 145	53. 553	48. 748	<b>-5.875</b>	1.00 42.66	Ä	Č	
ATOM ATOM	925	CD	GLU	145	54. 667	49.639	-6.418	1.00 45.91	Ä	Č	
ATOM	927	0E1		145	55. 745	49.705	-5. 779	1.00 45.49	A	0	
ATOM	928	0E2		145	54. 456	50.283	-7.476	1.00 45.56	Α	0	
ATOM	929	C	GLU	145	53. 775	50.496	-2.544	1.00 35.06	A	C	
ATOM	930	0	GLU	145	52.874	50.635	-1.715	1.00 34.22	A	0	

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			F1G.	4 - 20							
ATOM	931 N GI	LU 146		428 -2.782	1.00 33.82	A	N				
ATOM		LU 146		706 -2.079	1.00 32.54	A	C				
ATOM		LU 146		608 -2.630	1.00 33.84	A A	C C				
ATOM		LU 146		924 -4.107 651 -4.455	1.00 33.18 1.00 33.14	A	Č				
ATOM		LU 146	54. 992 54. 55. 677 55.	129 -3.528	1.00 33.14	A	ŏ				
ATOM	936 OE1 G			754 <b>-</b> 5. 660	1.00 35.11	A	Ŏ				
ATOM	937 OE2 GI 938 C GI	LU 146 LU 146		521 -0.579	1.00 32.26	A	C				
ATOM ATOM		LU 146		172 0.031	1.00 32.38	Α·	0				
ATOM		RG 147		638 0.013	1.00 30.84	Α	N				
ATOM		RG 147		357 1.437	1.00 29.94	Α	C				
ATOM		RG 147		107 1.774	1.00 31.91	A	C				
ATOM		RG 147		821 1.262	1.00 33.35	A	C				
ATOM		RG 147		649 1.963	1.00 34.66	A	C				
ATOM		RG 147		539 1.650	1.00 37.64	A	N				
ATOM		RG 147		812 2.356	1.00 39.76	A	C N				
ATOM		RG 147		143 3.421 737 1.987	1.00 40.68 1.00 39.79	A A	N				
ATOM	948 NH2 A			737 1.987 483 2.363	1.00 28.99	A	Č				
ATOM		RG 147		330 2.002	1.00 29.74	A	ŏ				
ATOM		RG 147 LE 148		486 3.568	1.00 26.79	Ä	Ň				
ATOM ATOM		LE 148		484 4.555	1.00 25.21	Ä	C				
ATOM		LE 148		364 5.798	1.00 24.62	Α	C				
ATOM	954 CG2 I			201 6.940	1.00 25.09	Α	C				
ATOM		LE 148		794 5.427	1.00 23.14	A	C				
ATOM	956 CD1 I			642 6.533	1.00 23.82	A	C				
ATOM		LE 148		173 4.891	1.00 24.99	A	C				
ATOM		LE 148		014 5.068	1.00 26.06	A	0 N				
ATOM		PRO 149		201 4.974	1.00 24.98	A	N C				
ATOM		PRO 149		. 645 4. 930 . 966 5. 282	1.00 24.87 1.00 26.52	A A	C				
ATOM		PRO 149		. 966 5. 282 . 356 5. 151	1.00 24.90	A	č				
ATOM		PRO 149 PRO 149			1.00 24.30	Ä	č				
ATOM ATOM		PRO 149		352 6.642	1.00 27.89	Ä	Č				
ATOM		PRO 149		.489 7.567	1.00 27.47	Α	0				
ATOM		ASN 150		6.748	1.00 29.59	Α	N				
ATOM		ASN 150		. 064 8. 016	1.00 30.82	A	C				
ATOM		ASN 150		. 131 7. 830	1.00 32.43	A	C				
ATOM		ASN 150		. 805 7. 189	1.00 35.16	A	C				
ATOM		ASN 150		. 215 7. 530	1.00 36.40	A	0				
ATOM	971 ND2 /			. 319 6. 271	1.00 36.52 1.00 30.50	A A	N C				
ATOM		ASN 150		. 245 8. 900	1.00 30.30	A	0				
ATOM		ASN 150		. 348 8. 394 . 022 10. 208	1.00 31.20	A	N				
ATOM		ASN 151 ASN 151		.078 11.154	1.00 28.87	A	Ċ				
ATOM ATOM		ASN 151		622 10.877	1.00 30.74	A	C				
ATOM		ASN 151		.571 11.048	1.00 34.06	Α	C				
ATOM	978 OD1			. 678 10. 219	1.00 36.24	A	0				
ATOM	979 ND2			. 666 12. 139	1.00 37.62	A	N				
					۵۱						

SUBSTITUTE SHEET (RULE 26)

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(Continued) FIG. 4-21 C 11.111 1.00 28.16 Α 151 60.734 55. 230 980 C **ASN ATOM** 1.00 28.85 0 56.400 11.112 Α 61.118 **ASN** 151 981 0 **ATOM** N 1.00 26.20 Α 54.895 11.064 59.450 152 **ATOM** 982 N THR C 11.041 1.00 24.74 55.911 A 152 58.415 **ATOM** 983 CA THR C 1.00 25.27 10.399 57.119 55.389 Α 152 984 CB THR **ATOM** 1.00 24.18 0 55.125 9.009 Α 152 57.351 OG1 THR **ATOM** 985 56. 426 10.538 1.00 23.99 C Α 56.004 CG2 THR 152 **ATOM** 986 C 1.00 23.46 12.474 Α 56.319 58.139 **ATOM** 987 C THR 152 0 Α 55.476 13.340 1.00 25.16 152 57.933 THR **ATOM** 988 0 57.620 12.721 1.00 22.30 Α N 58.134 153 **ATOM** 989 N **GLN** 1.00 20.67 C 14.063 A 58.129 GLN 153 57.916 **ATOM** 990 CA C Α 1.00 19.09 58.501 59.534 14.161 153 **ATOM** 991 CB GLN  $\mathbb{C}$ 59.543 13.906 1.00 13.74 Α 60.002 GLN 153 CG **ATOM** 992 C 60.853 13.331 1.00 14.57 Α 60.495 **ATOM** 993 CD GLN 153 0 1.00 12.70 Α 60.089 61.260 12. 233 OE1 GLN 153 994 **ATOM** N 14.066 1.00 10.81 61.375 61.524 Α 153 995 NE2 GLN **ATOM** C 14.495 1.00 20.53 Α 58.112 56.460 **ATOM** 996 C **GLN** 153 0 1.00 19.36 56.163 57.979 15.683 Α **GLN** 153 **ATOM** 997 0 58.229 13.531 1.00 20.90 A N 55.556 TRP 154 **ATOM** 998 N 1.00 21.02 C 58.213 13.831 Α 54.131 CA TRP 154 **ATOM** 999 1.00 22.43 Α C 59.498 14.550 53.733 TRP 154 **ATOM** 1000 CB 1.00 21.90 C 59.530 14.923 52.312 Α 1001 CG TRP 154 **ATOM** C 1.00 22.22 15.976 51.695 58.791 A CD2 TRP 154 **ATOM** 1002 1.00 23.62 C 59.087 15.942 Α 50.315 CE2 TRP 154 1003 **ATOM** 16.947 1.00 22.95 C 52.173 57.902 Α CE3 TRP **ATOM** 1004 154 C 1.00 24.44 14.308 A CD1 TRP 154 51.321 60.228 **ATOM** 1005 N 50.112 59.968 14.912 1.00 24.78 Α **ATOM** 1006 NE1 TRP 154 58.526 16.842 1.00 22.94 A C 49.404 CZ2 TRP 154 **ATOM** 1007 1.00 22.07 C 57.339 17.847 Α 51.263 1008 CZ3 TRP 154 **ATOM** C 1.00 23.43 A 1009 CH2 TRP 154 49.897 57.656 17.784 **ATOM** 53. 291 58.054 12.576 1.00 21.43 A C 154  $\mathfrak{C}$ TRP **ATOM** 1010 11.518 1.00 22.33 0 58.572 A 53.642 154 **ATOM** 1011 0 TRP 1.00 21.97 A N 57.343 12.703 1012 N VAL 155 52.173 **ATOM** C 11.579 1.00 20.81 51.267 57.103 Α 1013 CA VAL 155 **ATOM** 1.00 19.96 C 51.642 55.797 10.840 Α VAL 155 1014 CB **ATOM** 1.00 21.34 C 11.842 Α 51.835 54.687 CG1 VAL 155 **ATOM** 1015 C 9.833 1.00 20.23 CG2 VAL 50.562 55.414 Α 155 1016 **ATOM** C 1.00 21.39 49.840 57.004 12.104 Α 155 1017 C VAL **ATOM** 1.00 21.74 A 0 13.162 155 49.601 56.425 1018 VAL **ATOM** 0 N 48.898 57.576 11.364 1.00 20.70 A 1019 N THR 156 **ATOM** 1.00 21.67 11.768 C 156 47.504 57.557 Α CA THR 1020 **ATOM** C 1.00 22.79 12.716 A 47.189 58.736 CB THR 156 **ATOM** 1021 0 45.771 1.00 25.50 12.890 A 58.848 1022 OG1 THR 156 **ATOM** 1.00 22.46 C 47.707 60.031 12.145 156 Α 1023 CG2 THR **ATOM** C 1.00 22.20 10.577 A 156 46.558 57.633 1024 THR **ATOM** 0 1.00 22.72 1025 46.861 58.276 9.577 A THR 156 0 **ATOM** 1.00 21.38 Α N

SUBSTITUTE SHEET (RULE 26)

56.966

56.985

55.825

45.413

44.423

43.426

TRP

TRP

TRP

**ATOM** 

**ATOM** 

**ATOM** 

1026

1027

1028

N

CA

CB

157

157

157

10.689

9.627

9.765

1.00 21.45

1.00 21.88

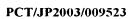
C

C

A

A

				FIG. 4-22	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064	CG TRP CD2 TRP CE2 TRP CE3 TRP CD1 TRP NE1 TRP CZ2 TRP CZ3 TRP CH2 TRP C TRP O TRP N SER CA SER CB SER OG SER C SER OG SER C SER O SER O SER O SER C SER O SER C SER O SER C SER O SER O SER C SER O S	157 157 157 157 157 157 157 157 157 158 158 158 158 159 159 159 160 160 160 160 161 161 161 161 161	FIG. 4 - 22  43. 995 54. 450 9. 599 1. 00 20. 88 A 44. 315 53. 800 8. 364 1. 00 18. 96 A 44. 843 52. 531 8. 686 1. 00 19. 67 A 44. 208 54. 168 7. 019 1. 00 17. 93 A 44. 328 53. 571 10. 592 1. 00 20. 82 A 44. 838 52. 417 10. 052 1. 00 21. 01 A 45. 265 51. 626 7. 708 1. 00 19. 76 A 45. 149 52. 011 6. 397 1. 00 19. 30 A 43. 650 58. 276 9. 801 1. 00 23. 03 A 43. 750 58. 917 10. 843 1. 00 23. 03 A 42. 889 58. 663 8. 784 1. 00 23. 17 A 42. 064 59. 855 8. 889 1. 00 23. 44 A 41. 667 60. 362 7. 502 1. 00 22. 82 A 41. 208 59. 311 6. 679 1. 00 23. 86 A 40. 845 59. 377 9. 678 1. 00 24. 35 A 40. 613 58. 176 9. 781 1. 00 24. 35 A 40. 056 60. 301 10. 247 1. 00 24. 17 A 40. 136 61. 762 10. 114 1. 00 24. 24 A 38. 876 59. 922 11. 029 1. 00 23. 45 A 39. 427 62. 214 11. 353 1. 00 24. 19 A 37. 901 59. 090 10. 224 1. 00 25. 28 A 36. 977 58. 640 8. 014 1. 00 23. 78 A 39. 427 62. 214 11. 353 1. 00 24. 19 A 37. 901 59. 090 10. 224 1. 00 25. 28 A 36. 977 58. 640 8. 014 1. 00 23. 99 A 35. 784 59. 545 7. 689 1. 00 23. 78 A 35. 066 59. 064 6. 449 1. 00 25. 50 A 34. 834 59. 559 8. 875 1. 00 23. 78 A 35. 665 57. 080 6. 181 1. 00 24. 55 A 37. 679 58. 218 6. 730 1. 00 23. 87 A 39. 121 55. 786 5. 286 1. 00 23. 87 A 39. 121 55. 786 5. 286 1. 00 23. 87 A 39. 144 55. 045 6. 269 1. 00 24. 24 40. 164 55. 950 4. 476 1. 00 25. 01	Continued)  C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM	1065 1066 1067	CA HIS CB HIS CG HIS	162 162 162	41. 423 55. 239 4. 695 1. 00 25. 86 A 41. 419 53. 923 3. 920 1. 00 26. 04 A 41. 075 54. 087 2. 475 1. 00 27. 52 A	C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1068 1069 1070 1071 1072 1073 1074 1075 1076	CD2 HIS ND1 HIS CE1 HIS NE2 HIS C HIS O HIS N LYS CA LYS CB LYS CG LYS	162 162 162 162 162 162 163 163 163	41. 614       54. 875       1. 515       1. 00       27. 58       A         40. 039       53. 402       1. 874       1. 00       27. 77       A         39. 956       53. 764       0. 606       1. 00       28. 51       A         40. 900       54. 656       0. 363       1. 00       28. 82       A         42. 660       56. 053       4. 305       1. 00       25. 44       A         43. 636       55. 501       3. 794       1. 00       24. 38       A         42. 609       57. 364       4. 527       1. 00       24. 47       A         43. 751       58. 221       4. 224       1. 00       23. 45       A         43. 372       59. 701       4. 273       1. 00       21. 75       A         42. 528       60. 216       3. 130       1. 00       21. 55       A	C N C N C O N C C C



## 26/246

(Continued)

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				FIC	3. 4 -	23			
ATOM	1078	CD LYS	163	42. 281	61.706	3. 335	1.00 20.23	Α	C
ATOM	1079	CE LYS			62.316	2. 228	1.00 18.07	Α	С
ATOM	1080	NZ LYS			63.778	2.422	1.00 20.95	Α	N
ATOM	1081	C LYS		44. 781	57.961	5.309	1.00 23.44	Α	C
ATOM	1082	0 LYS		44. 425	57.600	6.433	1.00 23.42	Α	0
ATOM	1083	N LEU			58.146	4.979	1.00 23.11	Α	N
ATOM	1084	CA LEU			57. 937	5.950	1.00 23.65	Α	C
ATOM	1085	CB LEU		48.014	56.773	5.524	1.00 24.35	Α	C
ATOM	1086	CG LEU		47. 551	55.351	5.848	1.00 25.57	Α	С
ATOM	1087	CD1 LEU		48. 519	54. 349	5.219	1.00 25.59	A	C
ATOM	1088	CD2 LEU	164	47. 497	55.162	7. 359	1.00 25.62	A	C
ATOM	1089	C LEU	164	47. 970	59. 182	6.120	1.00 23.21	A	C
ATOM	1090	0 LEU	164	48. 175	59. 943	5. 177	1.00 24.34	A	0
ATOM	1091	N ALA	165	48. 456	59. 383	7. 335	1.00 21.88	A	N
ATOM	1092	CA ALA		49.319	60. 508	7.649	1.00 21.58	A	C
ATOM	1093	CB ALA		48. 548	61.583	8. 376	1.00 21.77	A	C
ATOM	1094	C ALA		50.406	59. 953	8. 545	1.00 22.07	A	C
ATOM	1095	0 ALA		50. 115	59. 285	9. 537	1.00 22.91	A	0
ATOM	1096	N TYF		51.661	60. 208	8. 201	1.00 22.02	A	N
ATOM	1097	CA TYP		52. 745	59.697	9.024	1.00 21.73	A	C
ATOM	1098	CB TYF		53. 185	58. 319	8. 520	1.00 22.38	A	C
ATOM	1099	CG TYF		53. 814	58. 315	7.141	1.00 22.11	A	C
ATOM	1100	CD1 TYF		55. 148	58.661	6.964 5.704	1.00 21.28 1.00 22.05	A A	C
ATOM	1101	CE1 TYP		55. 733	58. 638 57. 949	6.015	1.00 22.03	A	Č
ATOM	1102	CD2 TYF		53. 074 53. 648	57. 923	4. 753	1.00 20.01	A	Č
ATOM	1103 1104	CZ TYF		54. 981	58. 268	4. 603	1.00 20.02	A	č
ATOM ATOM	1104	OH TY		55. 566	58. 252	3. 352	1.00 20.77	Ä	ŏ
ATOM	1105	C TYI		53. 927	60.643	9.057	1.00 21.64	A	Č
ATOM	1107	0 TYI		54. 108	61.464	8. 157	1.00 21.61	A	Ŏ
ATOM	1108	N VAI		54. 722	60. 529	10.111	1.00 20.28	Ā	Ň
ATOM	1109	CA VAI		55. 886	61.371	10.264	1.00 19.16	Α	C
ATOM	1110	CB VAI		55. 924	62.011	11.644	1.00 19.56	Α	С
ATOM	1111	CG1 VA		57. 103	62.984	11.731	1.00 18.58	Α	C
ATOM	1112	CG2 VA		54.609	62.713	11.916	1.00 18.36	Α	C
ATOM	1113	C VA		57. 135	60.537	10.078	1.00 20.06	Α	C
ATOM	1114	0 VA		57. 287	59.474	10.679	1.00 21.80	Α	0
ATOM	1115	N TR	P 168	<b>58. 030</b>	61.023	9.233	1.00 19.65	A	N
ATOM	1116	CA TR	P 168	<b>59. 268</b>	60.320	8.964	1.00 19.61	A	C
ATOM	1117	CB TR		59. 164	59. 558	7.646	1.00 20.07	A	C
ATOM	1118	CG TR		60. 387	58.772	7.353	1.00 23.12	A	C
ATOM	1119	CD2 TR		61.319	59.011	6.300	1.00 21.38	A	C
ATOM	1120	CE2 TR		62. 353	58.061	6.436	1.00 21.58	A	C
ATOM	1121	CE3 TR		61. 382	59. 936	5. 256	1.00 21.74	A	C
ATOM	1122	CD1 TR		60. 873	57. 712	8.066	1.00 22.86	A	C N
ATOM	1123	NE1 TR		62.056	57. 281	7. 521 5. 563	1.00 21.54 1.00 23.71	A A	C
ATOM	1124	CZ2 TR		63.445	58. 012 59. 889	5. 503 4. 386	1.00 23.71	A	C
ATOM	1125	CZ3 TR CH2 TR		62. 468	58. 934	4. 546	1.00 23.21	A	Č
ATOM	1126	CHZ IK	1 100	63.484	JO. JU4	7.070	1.00 44.17	11	J

										(Con	tinued)		
					]	FI	G. 4	- 24					
ATOM ATOM	1127 1128	C 0	TRP TRP	168 168		406	61. 32° 62. 31°			19.17 19.01	A A	C 0	
ATOM	1129	N	ASN	169	61.	452	61.07			19.26	A	N	
ATOM ATOM	1130 1131	CA CB	ASN ASN	169 169		589 374	61.969 61.909			21.05 23.39	A A	C C	
ATOM	1131	CG	ASN	169		056	60. 56			26. 24	A	č	
ATOM	1133		ASN	169		410	60.19			29.51	Α	0	
ATOM	1134		ASN	169		255	59. 83			27. 22	A	N	
ATOM	1135	C	ASN	169		122	63. 39			19.72	A	C	
ATOM	1136	0 N	ASN	169 170		582 182	64. 344 63. 525			19.61 19.01	A A	O N	
ATOM ATOM	1137 1138	N CA	ASN ASN	170		654	64. 81			18.95	A	C	
ATOM	1139	CB	ASN	170		806	65. 67			19.76	A	Č	
ATOM	1140	CG	ASN	170		326	65. 193	3 13. 239	1.00	21.23	Α	C	
ATOM	1141		ASN	170		690	64.02			23. 29	A	0	
ATOM	1142		ASN	170		362	66. 093			21.16	A	N	
ATOM ATOM	1143 1144	C 0	ASN ASN	170 170		828 594	65. 62 66. 81			18.94 17.99	A A	C 0	
ATOM	1144	N	ASP	171		385	64. 97			18.46	A	N	
ATOM	1146	ĊA	ASP	171		566	65.643			18.64	Ā	Ĉ	
ATOM	1147	CB	ASP	171	59.	271	65.69			18.52	Α	C	
ATOM	1148	CG	ASP	171		353	66. 750			17.77	A	C	
ATOM	1149		ASP	171		126	67.87			17.30	A	0	
ATOM ATOM	1150 1151	C	ASP ASP	171 171		436 255	66. 454 64. 888			24. 17 20. 36	A A	C 0	
ATOM	1151	Ö	ASP	171		182	63. 69			21.44	A	Õ	
ATOM	1153	Ň	ILE	172		225	65. 58			19.52	A	Ň	
ATOM	1154	CA	ILE	172		908	64.98	7.466	1.00	18.52	Α	C	
ATOM	1155	CB	ILE	172		813	65.96			18.99	A	C	
ATOM	1156		ILE	172		443	65. 329			17.69	A	C	
ATOM ATOM	1157 1158		ILE ILE	172 172		053 167	66. 394 67. 538			18. 78 18. 44	A A	C C	
ATOM	1159		ILE	172		609	64. 53			18. 52	A	Č	
ATOM	1160		ILE	172		905	65. 24			19.61	A	Ŏ	
ATOM	1161	N	TYR	173		017	63. 35			17.61	A	N	
ATOM	1162	CA	TYR	173		645	62.80			16. 59	A	C C C C	
ATOM	1163	CB	TYR	173		519	61.613 61.92			14.94	A	C	
ATOM ATOM	1164 1165	CG CD1	TYR TYR	173 173		983 815	61.97			15.66 16.67	A A	Č	
ATOM	1166	CE1	TYR	173		170	62. 27			16.34	A	č	
ATOM	1167		TYR	173		541	62.16	2.870	1.00	15.99	Α	C	
ATOM	1168	CE2	TYR	173		879	62.46			13.89	A	C	
ATOM	1169	CZ	TYR	173		685	62. 51			15.53	A	C	
ATOM	1170 1171	OH C	TYR TYR	173 173		004 198	62. 83° 62. 34°			21.66 17.34	A A	C 0	
ATOM ATOM	1171	0	TYR	173		683	62.00			14.56	A	0	
ATOM	1173	Ň	VAL	174		552	62. 30			18.18	A	Ň	
ATOM	1174	CA	VAL	174	50.	174	61.86	3. 444	1.00	19.46	Α	С	
ATOM	1175	CB	VAL	174	49.	212	63.06	3. 319	1.00	18.88	Α	С	

(Continued)

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					1. 1	G. 4				_
ATOM	1176	CG1 V		174	47.775	62.564	3. 207	1.00 19.37	A	C C
ATOM	1177	CG2 V		174	49.359	63.969	4.534	1.00 20.44 1.00 21.57	A A	Č
ATOM	1178		/AL	174	49.948	60. 928 61. 129	2. 268 1. 185	1.00 21.31	A	Õ
ATOM	1179		/AL LYS	174 175	50. 485 49. 154	59.891	2. 500	1.00 22.00	A	N
ATOM ATOM	1180 1181		LYS	175	48. 824	58. 934	1.461	1.00 23.86	A	Ċ
ATOM	1182		LYS	175	49. 275	57. 516	1.831	1.00 24.28	A	C
ATOM	1183		LYS	175	50.759	57.352	2.113	1.00 28.82	Α	С
ATOM	1184		LYS	175	51.100	55.895	2.422	1.00 29.18	Ą	C
ATOM	1185		LYS	175	51.107	55.043	1.163	1.00 29.84	A	C
ATOM	1186		LYS	175	52. 263	55. 409	0. 291	1.00 31.80	A	N C
ATOM	1187		LYS	175	47.314	58. 935 58. 606	1.338 2.293	1.00 24.49 1.00 25.05	A A	0
ATOM	1188		LYS ILE	175 176	46. 615 46. 820	59.319	0. 166	1.00 23.03	A	N
ATOM ATOM	1189 1190		ILE	176	45. 394	59.327	-0.102	1.00 24.70	Ä	Ċ
ATOM	1191		ILE	176	45. 095	60.028	-1.437	1.00 22.88	A	C
ATOM	1192		ILE	176	43.605	60.073	-1.679	1.00 21.75	Α	C
ATOM	1193		ILE	176	45.677	61.443	-1.423	1.00 21.52	A	C
ATOM	1194		ILE	176	45.016	62.379	-0.424	1.00 23.58	A	C
ATOM	1195		ILE	176	44. 995	57.860	-0. 211	1.00 26.89	A	C
ATOM	1196		ILE	176	43.979	57. 428 57. 097	0. 328 -0. 906	1.00 26.38 1.00 29.47	A A	0 N
ATOM ATOM	1197 1198		GLU GLU	177 177	45. 829 45. 597	55.672	-0.300 $-1.104$	1.00 23.41	A	C
ATOM	1199		GLU	177	45. 412	55. 380	-2.594	1.00 35.29	Ä	Č
ATOM	1200		GLU	177	44. 308	56.190	-3.248	1.00 38.36	Α	C
ATOM	1201		GLU	177	42.925	55.776	-2.784	1.00 41.13	A	C
ATOM	1202	0E1 (		177	41.951	56. 495	-3. 105	1.00 45.06	A	0
ATOM	1203	0E2		177	42.810	54. 730	-2.107	1.00 40.42	A	0 C
ATOM	1204		GLU	177	46. 796 47. 940	54. 895 55. 223	-0.569 $-0.872$	1.00 31.55 1.00 31.59	A A	0
ATOM ATOM	1205 1206		GLU PRO	177 178	46.544	53. 840	0.221	1.00 31.40	A	N
ATOM	1207		PRO	178	45. 218	53. 240	0. 438	1.00 30.50	A	C
ATOM	1208		PRO	178	47. 591	53.000	0.814	1.00 29.97	Α	C
ATOM	1209		PR0	178	46. 796	51.902	1.509	1.00 30.05	A	C
ATOM	1210		PRO	178	45. 567	51.805	0.684	1.00 31.07	A	C
ATOM	1211		PRO	178	48. 633	52. 436	-0.150	1.00 29.50 1.00 31.00	A A	C 0
ATOM	1212		PRO	178	49.727	52. 062 52. 379	0.269 $-1.436$	1.00 28.20	A	N
ATOM ATOM	1213 1214		ASN ASN	179 179	48. 308 49. 251	51.838	-2.409	1.00 27.53	A	C
ATOM	1214		ASN	179	48. 568	50. 805	-3.299	1.00 26.23	A	Č
ATOM	1216		ASN	179	47. 474	51.409	-4.144	1.00 25.74	Α	C
ATOM	1217		ASN	179	46.494	51.948	-3.626	1.00 26.59	A	0
ATOM	1218	ND2		179	47.635	51.329	-5.452	1.00 26.72	A	N
ATOM	1219		ASN	179	49.854	52.916	-3. 285	1.00 27.48	A	C
ATOM	1220		ASN	179	50.818	52. 670 54. 115	-4.004 -3.231	1.00 28.42 1.00 26.68	A A	O N
ATOM	1221 1222		LEU LEU	180 180	49. 289 49. 805	54. 115 55. 200	-3. 231 -4. 050	1.00 26.08	A	C
ATOM	1223		LEU	180	48.658	56. 125	-4. 456	1.00 24.86	A	Č
ATOM	1224		LEU	180	47. 574	55. 370	-5. 238	1.00 25.87	Α	C
111011				-00		-				

										(Continued)
					FΙ	G. 4	- 26			(Continued)
									_	
ATOM	1225		LEU	180	46. 604	56. 359	-5.856	1.00 23.58	A	C
ATOM	1226		LEU	180	48. 224	54. 503	-6. 328	1.00 22.86	A	C
ATOM	1227	C	LEU	180	50. 938	55. 996	-3. 391	1.00 25.78	A	C
ATOM	1228	0	LEU	180	51. 185	55. 883	-2. 185	1.00 23.62	A	0
ATOM	1229	N	PRO	181	51.669	56. 789	-4. 194	1.00 24.96	A	N
ATOM	1230	CD	PRO	181	51.687	56.842	-5.667	1.00 23.41	A	C
ATOM	1231	CA	PRO	181	52. 766	57. 580	-3. 634	1.00 23.35	A	C
ATOM	1232	CB	PRO	181	53. 403	58. 217	-4.870	1.00 22.16	A	C
ATOM	1233	CG	PRO	181	53. 124	57. 201	-5.944	1.00 22.72	A	C
ATOM	1234	C	PRO	181	52. 216	58. 613	-2.667	1.00 22.15	A	C
ATOM	1235	0	PRO	181	51.144	59. 173	-2.880	1.00 21.88	A	0
ATOM	1236	N	SER	182	52. 954	58. 864	-1.601	1.00 21.65	A	N
ATOM	1237	CA	SER	182	52. 516	59.829	-0.620	1.00 20.50	A	C
ATOM	1238	CB	SER	182	52. 999	59. 404	0.765	1.00 22.61	A	C
ATOM	1239	OG C	SER	182	54. 408	59. 345	0.806	1.00 23.55	A	0
ATOM	1240	C	SER	182	53. 034	61. 222	-0.947	1.00 19.05	A	C
ATOM ATOM	1241 1242	O N	SER TYR	182 183	54. 003 52. 366	61.380	-1.687	1.00 17.74	A	0 N
ATOM	1242	CA	TYR	183		62. 233	-0. 402 -0. 611	1.00 17.87	A	N C
ATOM	1243	CB	TYR	183	52. 786 51. 595	63. 606 64. 523	-0. 611 -0. 832	1.00 15.17 1.00 12.09	A	C
ATOM	1245	CG	TYR	183	50. 676	64. 028	-0.832	1.00 12.09	A	C
ATOM	1245	CD1		183	49. 729	63.052	-1.625	1.00 12.34	A	C
ATOM	1247		TYR	183	48. 916	62. 554	-2.610	1.00 8.95	A	C C
ATOM	1248		TYR	183	50. 782	64. 494	-3. 214	1.00 11.93	A A	C
ATOM	1249		TYR	183	49. 961	63. 990	-4.218	1.00 3.42	A	Č
ATOM	1250	CZ	TYR	183	49. 032	63.019	-3.903	1.00 10.27	A	Č
ATOM	1251	OH	TYR	183	48. 205	62.494	-4.867	1.00 14.71	A	Ö
ATOM	1252	C	TYR	183	53. 532	64.067	0.617	1.00 15.72	A	Č
ATOM	1253	ŏ	TYR	183	53. 208	63.679	1.740	1.00 17.69	A	0
ATOM	1254	Ň	ARG	184	54. 540	64. 893	0.386	1.00 14.64	A	Ň
ATOM	1255	CA	ARG	184	55. 342	65. 436	1.452	1.00 14.10	A	Č .
ATOM	1256	CB	ARG	184	56. 786	65. 593	0.970	1.00 16.84	A	č
ATOM	1257	ĊĠ	ARG	184	57. 725	66. 203	1.989	1.00 20.48	A	č
ATOM	1258	CD	ARG	184	59. 170	65. 912	1.629	1.00 20.61	Ä	č
ATOM	1259	NE	ARG	184	60.095	66.485	2. 598	1.00 20.21	A	Ň
ATOM	1260	CZ	ARG	184	61.407	66.288	2.583	1.00 19.46	Ā	Ċ
ATOM	1261	NH1		184	61.954	65. 529	1.650	1.00 17.13	Ā	N
ATOM	1262	NH2	ARG	184	62.170	66.853	3.506	1.00 20.35	Α	N
ATOM	1263	C	ARG	184	54. 736	66.779	1.820	1.00 14.10	Α	C
ATOM	1264	0	ARG	184	54.569	67.650	0.972	1.00 14.71	Α	0
ATOM	1265	N	ILE	185	54.390	66.937	3.089	1.00 15.27	Α	N
ATOM	1266	CA	ILE	185	53.804	68. 175	3.572	1.00 14.44	Α	C
ATOM	1267	CB	ILE	185	52.786	67.884	4.692	1.00 16.20	Α	C
ATOM	1268		ILE	185	52.091	69. 175	5. 115	1.00 14.78	Α	C
ATOM	1269		ILE	185	51.770	66. 842	4. 202	1.00 15.25	A	C
ATOM	1270		ILE	185	51.021	67. 250	2. 947	1.00 12.00	A	C
ATOM	1271	C	ILE	185	54. 847	69. 172	4. 091	1.00 14.33	A	C
ATOM	1272	0	ILE	185	54. 647	70. 377	3. 994	1.00 14.95	A	0
ATOM	1273	N	THR	186	55. 950	68. 676	4. 646	1.00 14.38	Α	N

		(Continued)						
ATOM	1274	CA	THR	186		00 15.05	A	C
ATOM	1275	CB	THR	186		00 15.72	A	C
ATOM	1276		THR	186		00 18.48	A	0
ATOM	1277	CG2		186		00 13.92	A	C C
ATOM	1278	C	THR	186		00 17.06 00 19.33	A	0
ATOM	1279	0	THR	186		00 19. 33	A A	N N
ATOM	1280	N CA	TRP TRP	187 187		00 16.04	A	C
ATOM	1281 1282	CA CB	TRP	187		00 13.96	A	č
ATOM ATOM	1283	CG	TRP	187		00 14.75	A	č
ATOM	1284	CD2		187		00 15.37	A	č
ATOM	1285	CE2		187		00 15.22	A	č
ATOM	1286	CE3		187		00 12.92	Ä	Č
ATOM	1287	CD1		187		00 14.94	A	Ċ
ATOM	1288	NE1		187		00 15.60	Α	N
ATOM	1289	CZ2		187		00 17.91	A	С
ATOM	1290	CZ3		187		00 16.75	Α	C
ATOM	1291	CH2	TRP	187	56. 758 69. 185 -0. 211 1.	00 17.84	Α	С
ATOM	1292	C	TRP	187	61.607 70.620 5.292 1.	00 15.71	Α	С
ATOM	1293	0	TRP	187		00 19.54	Α	0
ATOM	1294	N	THR	188		00 13.19	Α	N
ATOM	1295	CA	THR	188	•	00 11.35	A	C
ATOM	1296	CB	THR	188		00 11.04	A	C
ATOM	1297		THR	188		00 9.11	A	0
ATOM	1298		THR	188		00 7.35	A	C
ATOM	1299	C	THR	188		00 12.10	A	C
ATOM	1300	0	THR	188		00 9.49	A	0 N
ATOM	1301	N	GLY	189		00 14.44 00 16.08	A	N C
ATOM	1302		GLY GLY	189 189		00 15.86	A	C C
ATOM ATOM	1303 1304	C 0	GLY	189		00 17.65	A A	0
ATOM	1304	N	LYS	190		00 17. 28	A	N
ATOM	1306		LYS	190	65.612 68.096 11.346 1.		A	Č
ATOM	1307	CB	LYS	190		00 20.03	Ä	č
ATOM	1308	CG	LYS	190		00 22.58	A	Č
ATOM	1309	CD	LYS	190		00 27.62	Ā	Č
ATOM	1310	CE	LYS	190		00 31.27	A	C
ATOM	1311	NZ	LYS	190		00 35.57	Α	N
ATOM	1312	C	LYS	190		00 18.55	Α	C
ATOM	1313	0	LYS	190	65. 384 68. 134 13. 737 1.	00 18.41	Α	0
ATOM	1314	N	GLU	191		00 19.79	Α	N
ATOM	1315	CA	GLU	191		00 21.70	A	Č
ATOM	1316	CB	GLU	191		00 23.41	A	C
ATOM	1317	CG	GLU	191		00 29.95	A	C
ATOM	1318	CD	GLU	191		00 30.89	A	C
ATOM	1319	0E1		191		00 33.70	A	0
ATOM	1320		GLU	191		00 33.21	A	0
ATOM	1321	C	GLU	191		00 21.53	A A	C 0
ATOM	1322	0	GLU	191	67. 930 67. 397 15. 156 1.	00 22.21	A	U

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FIG. 4-28											nued)
ATOM ATOM	1323 1324	N CA	ASP ASP	192 192		5. 451 7. 246	16. 320 17. 525	1.00 21.17 1.00 22.27	A A	N C	
ATOM	1325		ASP	192		6.880	18. 182	1.00 23.92	Α	C	
ATOM	1326		ASP	192		5. 400	18.510	1.00 25.20		C	
ATOM	1327	0D1		192		4. 775	18.850	1.00 25.70		0	
ATOM	1328	0D2		192		4.866	18. 438	1.00 26.25	A	0	
ATOM	1329	C	ASP	192		3. 759	17. 341	1.00 21.93 1.00 22.78		C 0	
ATOM	1330	0	ASP	192		9. 489 9. 242	18. 145 16. 304	1.00 22.76		N	
ATOM	1331 1332	N CA	ILE ILE	193 193		0.684	16.071	1.00 20.08		Č	
ATOM ATOM	1333	CB	ILE	193		1.113	15.039	1.00 20.73		č	
ATOM	1334	CG2		193		2. 567	14.677	1.00 18.91	Ā	C	
ATOM	1335	CG1		193		0. 889	15.624	1.00 22.58		C	
ATOM	1336		ILE	193	69.263 7	1.198	14.671	1.00 26.43		C	
ATOM	1337	C	ILE	193		1.172	15.615	1.00 19.15		C	
ATOM	1338	0	ILE	193		2.068	16. 220	1.00 19.55		0	
ATOM	1339	N	ILE	194		0. 594	14.534	1.00 19.04		N	
ATOM	1340	CA	ILE	194		0.967	14.021	1.00 17.41	A	C	
ATOM	1341	CB	ILE	194		1.547	12.587	1.00 18.89 1.00 16.97		C C	
ATOM	1342	CG2		194		1.944 2.750	12. 095 12. 553	1.00 10.37		č	
ATOM	1343 1344	CG1 CD1	ILE ILE	194 194		3. 936	13.395	1.00 15.20		Č	
ATOM ATOM	1344	CDI	ILE	194		9. 702	13.969	1.00 18.22		č	
ATOM	1346	Ö	ILE	194		8. 713	13.349	1.00 17.31	Ä	ŏ	
ATOM	1347	Ň	TYR	195		9. 726	14.642	1.00 17.31	A	N	
ATOM	1348	CA	TYR	195		8. 593	14.639	1.00 16.19	Α	C	
ATOM	1349	CB	TYR	195		8.071	16.053	1.00 17.03		C	
ATOM	1350	CG	TYR	195		7. 776	16.893	1.00 17.58		C	
ATOM	1351	CD1	TYR	195		8. 802	17. 286	1.00 18.28		C	
ATOM	1352	CE1	TYR	195		8. 558	18. 145	1.00 16.45	A	C	
ATOM	1353		TYR	195		6. 490 6. 237	17. 377 18. 240	1.00 15.00 1.00 15.14		C C	
ATOM	1354	CZ	TYR TYR	195 195				1.00 13.14		Č	
ATOM ATOM	1355 1356	OH	TYR	195		7. 041	19.515	1.00 21.26		ŏ	
ATOM	1357	C	TYR	195		9.016	14.047	1.00 16.29		Č	
ATOM	1358	ŏ	TYR	195		9.902	14.586	1.00 15.85		0	
ATOM	1359	Ň	ASN	196		8.380	12.942	1.00 15.27		N	
ATOM	1360	CA	ASN	196		8.656	12.286	1.00 12.88		C C	
ATOM	1361	CB	ASN	196		8.894	10.790	1.00 13.47		C	
ATOM	1362	CG	ASN	196		0.133	10.489	1.00 14.66			
ATOM	1363		ASN	196		1. 261	10.678	1.00 10.34		0 N	;
ATOM	1364		ASN	196		9. 927 7. 438	10.013 12.457	1.00 15.26 1.00 14.12		N C	
MOTA	1365 1366	C 0	ASN ASN	196 196		6.347	12. 431	1.00 14.12		ő	
ATOM ATOM	1367	N	GLY	197		7.613	13.065	1.00 10.31		Ň	
ATOM	1368	CA	GLY	197		6.488	13. 231	1.00 15.17	_	C	
ATOM	1369	C	GLY	197		5.638	14.458	1.00 15.48		C	
ATOM	1370	0	GLY	197	53.059 6	4.799	14.815	1.00 15.55	i A	0	
ATOM	1371	N	ILE	198	55.023 6	5.846	15.098	1.00 16.49	) A	N	

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		(Conti	nued)								
					FI	G. 4	- 29				
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408	CB I CG2 I CG1 I CC1 I CC2 I C	ILE ILE ILE ILE ILE ITHR ITHR ITHR ITHR ITHR ITHR ITHR ITHR	198 198 198 198 198 198 199 199 199 199	55. 378 56. 425 55. 874 57. 724 58. 798 55. 946 56. 507 55. 809 56. 264 55. 374 57. 716 58. 317 58. 317 58. 317 60. 318 59. 649 60. 318 59. 496 61. 88 61. 909 61. 417 61. 500 60. 504 61. 500 62. 266 62. 02 61. 09 60. 50 59. 52 58. 63 59. 69	63. 991 63. 013 64. 602 63. 565 66. 057 67. 091 65. 700 66. 547 66. 316 66. 316 66. 325 66. 325 67. 301 66. 325 67. 193 68. 576 69. 446 7 69. 190 70. 403 66. 515 66. 381 65. 699 66. 381 65. 699 66. 381 66. 381	16. 298 16. 011 14. 987 15. 494 15. 214 17. 318 16. 966 18. 583 19. 672 20. 908 21. 301 20. 583 20. 076 19. 734 20. 801 21. 289 21. 418 22. 491 22. 873 22. 945 22. 641 22. 999 23. 395 24. 672 25. 326 26. 510 27. 828 28. 564 28. 564 28. 564 28. 567 27. 733 29. 897 29. 778 30. 486 25. 662 26. 175 25. 931	1. 00 16. 59 1. 00 18. 21 1. 00 18. 51 1. 00 17. 86 1. 00 19. 35 1. 00 15. 95 1. 00 17. 63 1. 00 15. 42 1. 00 16. 68 1. 00 17. 40 1. 00 18. 82 1. 00 16. 12 1. 00 16. 87 1. 00 16. 87 1. 00 16. 41 1. 00 16. 41 1. 00 15. 97 1. 00 15. 54 1. 00 17. 16 1. 00 15. 10 1. 00 15. 10 1. 00 15. 10 1. 00 13. 14 1. 00 14. 90 1. 01 13. 65 1. 00 13. 65 1. 00 13. 65 1. 00 13. 65 1. 00 13. 64 1. 00 14. 90 1. 01 13. 64 1. 00 14. 87 1. 00 14. 87 1. 00 14. 87 1. 00 14. 87 1. 00 14. 87 1. 00 14. 87 1. 00 14. 87 1. 00 14. 87 1. 00 14. 87 1. 00 14. 87 1. 00 14. 42 1. 00 14. 42 1. 00 14. 23	A A A A A A A A A A A A A A A A A A A	CCCCCONCCOCCONCCCOOCONCCCCCCNCCCCONC	nued)
ATOM ATOM ATOM	1409 1410 1411	CA CB	VAL VAL VAL	202 202 202	58. 83 59. 40 59. 01	0 68. 265 2 69. 639	26. 911 27. 330	1.00 14.23 1.00 12.99 1.00 11.02	A A A	C C	
ATOM ATOM ATOM	1412 1413 1414		VAL VAL VAL	202 202 202 202	58. 94 57. 36 56. 49	7 69.963 5 68.401	28. 753 26. 518	1.00 8.71 1.00 15.76 1.00 18.74	A A A	C 0	
ATOM ATOM ATOM	1415 1416 1417	N CA CB	TYR TYR TYR	203 203 203	57. 07 55. 67 55. 55	2 68.518 6 68.606 6 69.078	25. 226 24. 805 23. 354	1.00 15.58 1.00 14.25 1.00 14.63	A A A	N C C C	
ATOM ATOM ATOM	1418 1419 1420		TYR TYR TYR	203 203 203	55. 22 56. 23 55. 92	1 71.508	23.193		A A A	C	

	(Continued)									
ATOM ATOM ATOM ATOM ATOM	1422 1423 1424 1425	CZ OH C	TYR TYR TYR TYR	203 203 203 203 203	53. 902 53. 579 54. 588 54. 259 55. 024	70.966 72.314 73.259 74.586 67.234 67.124	23. 177 23. 099 23. 061 22. 970 24. 951 25. 406	1. 00 12. 17 1. 00 10. 57 1. 00 9. 67 1. 00 7. 05 1. 00 14. 92 1. 00 15. 28	A A A A A	C C C O C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1427 1428 1429 1430 1431	CA CB CG CD	TYR GLU GLU GLU GLU GLU GLU	203 204 204 204 204 204 204	55. 744 55. 222 56. 238 55. 928 56. 872 56. 697	66. 185 64. 826 63. 812 62. 380 61. 345 60. 144	24. 570 24. 684 24. 130 24. 540 23. 947 24. 271	1. 00 16. 35 1. 00 16. 96 1. 00 14. 28 1. 00 14. 97 1. 00 19. 54 1. 00 18. 49	A A A A A	N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1434 1435 1436 1437 1438	OE2 C O N CA CB	GLU GLU GLU GLU GLU GLU	204 204 204 205 205 205 205	54.868	61. 714 64. 431 63. 848 64. 761 64. 409 64. 250 64. 035	23. 160 26. 128 26. 388 27. 059 28. 459 29. 096 30. 592	1.00 18.73 1.00 18.02 1.00 17.48 1.00 18.67 1.00 20.30 1.00 20.92 1.00 24.62	A A A A A	0 C 0 N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1440 1441 1442 1443 1444 1445	CD	GLU GLU	205 205 205 205 205 206 206	56. 563 56. 398 56. 424 54. 760 53. 996 54. 902 54. 202	62. 625 62. 355 61. 778 65. 362 64. 915 66. 666 67. 632	30. 974 32. 182 30. 069 29. 319 30. 164 29. 107 29. 939	1.00 28.17 1.00 32.15 1.00 31.11 1.00 22.25 1.00 22.34 1.00 22.70 1.00 23.19	A A A A A	C O O C O N C
ATOM ATOM ATOM ATOM ATOM ATOM	1447 1448 1449 1450 1451 1452	CB CG CD OE1 OE2 C	GLU GLU GLU GLU GLU	206 206 206 206 206 206	55. 203 56. 466 56. 188 57. 160 55. 000 53. 024	68. 667 68. 088 67. 307 66. 855 67. 144 68. 378	30. 453 31. 080 32. 345 32. 987 32. 696 29. 324	1.00 25.39 1.00 27.87 1.00 29.45 1.00 29.92 1.00 29.12 1.00 24.91	A A A A	C C C O C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1453 1454 1455 1456 1457 1458 1459		GLU VAL VAL VAL VAL VAL VAL	206 207 207 207 207 207 207	52. 175 52. 957 51. 880 52. 444 51. 324 53. 496 50. 801	68. 885 68. 452 69. 199 70. 235 71. 114 71. 080 68. 409	30. 051 27. 999 27. 375 26. 398 25. 876 27. 092 26. 653	1.00 24.03 1.00 25.41 1.00 25.29 1.00 25.95 1.00 28.49 1.00 26.77 1.00 26.09	A A A A A	O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	1460 1461 1462 1463 1464 1465	O N CA CB CG CD1	VAL PHE PHE PHE PHE PHE	207 208 208 208 208 208 208 208	49. 617 51. 194 50. 228 50. 557 50. 234 51. 234 48. 918	68. 703 67. 412 66. 620 66. 676 67. 994 68. 911 68. 328	26. 813 25. 865 25. 105 23. 607 22. 962 22. 679 22. 660	1.00 27.62 1.00 26.41 1.00 26.03 1.00 27.43 1.00 28.64 1.00 29.07 1.00 30.01	A A A A A A	O N C C C C
ATOM ATOM ATOM ATOM	1466 1467 1468 1469	CE1 CE2	PHE PHE PHE PHE	208 208 208 208	50. 929 48. 604 49. 612	70. 142 69. 556 70. 464	22. 104 22. 086 21. 809	1. 00 30. 28 1. 00 30. 23 1. 00 30. 40	A A A	C C C

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	(Continued)									
ATOM	1470	С	PHE	208	50.082	65. 163	25. 506	1.00 26.13	A	C
ATOM	1471	0	PHE	208	49. 215	64. 471	24.985	1.00 27.79	A	0
ATOM	1472	N	SER	209	50.918	64. 687	26. 421	1.00 26.62	A	N
ATOM	1473	CA	SER	209	50. 852	63. 293	26.848	1.00 25.74	A	C
ATOM	1474	CB	SER	209	49. 645	63.059	27.743	1.00 24.80	A	C
ATOM	1475	0G	SER	209	49. 871	63.629	29.014	1.00 29.47	A	0
ATOM	1476	C	SER	209	50.773	62.377	25.642	1.00 25.50	A	C
ATOM	1477	0	SER	209	50. 278	61.249	25.716	1.00 25.72	A	0
ATOM	1478	N	ALA	210	51. 272	62.875	24.524	1.00 23.72	A	N
ATOM	1479	CA	ALA	210	51. 263	62.112	23. 299	1.00 22.80	A	C
ATOM	1480	CB	ALA	210	49. 977	62.364	22.530	1.00 20.62	Α	C
ATOM	1481	C	ALA	210	52.455	62.560	22.492	1.00 21.87	A	C
ATOM	1482	0	ALA	210	52.986	63.644	22.703	1.00 22.09	A	0
ATOM	1483	N	TYR	211	52.863	61.719	21.558	1.00 21.57	Α	N
ATOM	1484	CA	TYR	211	54.000	62.009	20.718	1.00 21.42	Α	С .
ATOM	1485	CB	TYR	211	54.725	60.711	20.405	1.00 19.58	Α	C
ATOM	1486	CG	TYR	211	55. 921	60.870	19.528	1.00 16.81	A	С
ATOM	1487	CD1	TYR	211	<b>56.</b> 853	61.870	19.770	1.00 16.07	Α	С
ATOM	1488	CE1	TYR	211	58.002	61.971	19.001	1.00 18.18	A	С
ATOM	1489	CD2	TYR	211	56. 160	59.976	18.489	1.00 17.91	A	C
ATOM	1490	CE2	TYR	211	57. 306	60.065	17.716	1.00 18.80	A	С
ATOM	1491	CZ	TYR	211	58. 221	61.063	17.979	1.00 18.36	A	C
ATOM	1492	OH	TYR	211	59.360	61.149	17.224	1.00 23.65	Α	0
ATOM	1493	C	TYR	211	53. 588	62.689	19.428	1.00 22.96	A	С
ATOM	1494	0	TYR	211	54. 365	63.443	18.837	1.00 25.79	Α	0
ATOM	1495	N	SER	212	52.365	62.433	18.983	1.00 20.96	A	N
ATOM	1496	CA	SER	212	51.918	63.033	17.746	1.00 19.56	Α	С
ATOM	1497	CB	SER	212	50.835	62.175	17.090	1.00 20.97	Α	С
ATOM	1498	0G	SER	212	49.635	62.208	17.829	1.00 21.79	Α	0
ATOM	1499	Ċ	SER	212	51.397	64.439	17.959	1.00 18.50	A	C
ATOM	1500	0	SER	212	50.933	64.789	19.040	1.00 16.31	Α	0
ATOM	1501	N	ALA	213	51.493		16.901	1.00 17.84	Α	N
ATOM		CA		213	51.036			1.00 16.02	Α	C
ATOM	1503	CB	ALA	213	52. 193	67.548	17.224	1.00 14.16	Α	C
ATOM	1504	Č	ALA	213	50.429	66.935	15.526	1.00 15.57	Α	C
ATOM	1505	Ŏ	ALA	213	50.857	67.862	14.833	1.00 13.25	Α	0
ATOM	1506	Ň	LEU	214	49.448	66.132	15. 129	1.00 14.75	Α	N
ATOM	1507	CA	LEU	214	48. 734	66.339	13.874	1.00 16.09	Α	C
ATOM	1508	CB	LEU	214	49. 353	65.517	12.735	1.00 16.40	A	Ċ
ATOM	1509	CG	LEU	214	49. 482	63.999	12.823	1.00 17.01	A	Č
ATOM	1510		LEU	214	48. 135	63.342	12.628	1.00 18.97	A	Č
ATOM	1511		LEU	214	50. 434	63.535	11.742	1.00 16.98	A	Ċ
ATOM	1512	C	LEU	214	47. 273	65.963	14. 124	1.00 16.65	Ä	č
ATOM	1513	ŏ	LEU	214	46. 966	64.933	14. 728	1.00 18.12	A	Ö
ATOM	1514	N	TRP	215	46. 366	66.811	13.666	1.00 16.16	A	N
ATOM	1515	CA	TRP	215	44. 959	66.590	13.907	1.00 14.69	A	Ĉ
ATOM	1516	CB	TRP	215	44. 471	67.663	14.863	1.00 15.49	A	Č
ATOM	1517	CG	TRP	215	45. 230	67.669	16.145	1.00 17.52	A	č
ATOM	1518		TRP	215	46. 482	68. 325	16.403	1.00 17.74	A	Ċ

					FΙ	G. 4	- 3 2			(Continued)
ATOM ATOM	1519 1520		TRP	215 215	46. 852 47. 325	68. 008 69. 149	17. 729 15. 643	1.00 17.50 1.00 18.21	A A	C C
ATOM	1521	CD1	TRP	215	44. 904	67.004	17. 289	1.00 15.79	Ā	Ċ
ATOM	1522		TRP	215	45. 873	67. 202	18. 243	1.00 17.35	A	N
ATOM ATOM	1523 1524		TRP TRP	215 215	48. 033 48. 505	68. 485 69. 625	18. 318 16. 228	1.00 18.06 1.00 18.96	A	C
ATOM	1525		TRP	215	48. 844	69. 289	17. 555	1.00 18.30	A A	C C
ATOM	1526	C	TRP	215	44. 110	66. 605	12.661	1.00 15.55	A	Č
ATOM	1527	Ŏ	TRP	215	43. 869	67.668	12. 090	1.00 16.18	A	ŏ
ATOM	1528	N	TRP	216	43. 646	65.430	12.244	1.00 15.31	A	N
ATOM	1529	CA	TRP	216	42. 793	65. 330	11.069	1.00 16.40	Α	C
ATOM	1530	CB	TRP	216	42. 494	63. 873	10. 739	1.00 16.43	A	C
ATOM ATOM	1531 1532	CC	TRP TRP	216 216	43. 549	63.114	10.002	1.00 17.38	A	C
ATOM	1532		TRP	216	43. 823 44. 794	63. 169 62. 176	8. 599 8. 320	1.00 17.01 1.00 17.25	A A	C C
ATOM	1534		TRP	216	43. 340	63. 954	7. 549	1.00 17.23	A	Č
ATOM	1535		TRP	216	44. 352	62. 125	10.508	1.00 18.55	A	Č
ATOM	1536		TRP	216	<b>45. 098</b>	61.553	9.501	1.00 18.07	Α	N
ATOM	1537		TRP	216	45. 286	61.951	7.036	1.00 15.24	Α	C
ATOM	1538		TRP	216	43. 829	63. 729	6. 270	1.00 17.06	A	C
ATOM	1539		TRP	216	44. 794	62. 734	6. 027	1.00 17.07	A	C
ATOM ATOM	1540 1541	C 0	TRP TRP	216	41.461 40.990	66.016	11. 355	1.00 17.17	A	C
ATOM	1541	N	SER	216 217	40. 990 40. 847	66.005 66.605	12. 487 10. 334	1.00 18.00 1.00 18.39	A	O N
ATOM	1543	CA	SER	217	39. 552	67. 240	10. 523	1.00 18.39	A A	C
ATOM	1544	CB	SER	217	39. 257	68. 225	9. 392	1.00 13.02	A	Č
ATOM	1545	0G	SER	217	39. 234	67.589	8. 133	1.00 24.00	Ä	ŏ
ATOM	1546	C	SER	217	38. 528	66.108	10.550	1.00 20.47	Ā	Č
ATOM	1547	0	SER	217	38. 814	64. 994	10.110	1.00 20.32	Α	0
ATOM	1548	N	PRO	218	37. 326	66. 369	11.074	1.00 20.82	Α	N
ATOM	1549	CD	PRO	218	36. 827	67. 650	11.598	1.00 20.28	A	C
ATOM ATOM	1550 1551	CA CB	PRO PRO	218 218	36. 285 35. 033	65. 339	11.154	1.00 22.67	A	C
ATOM	1552	CG	PRO	218	35. 587	66. 148 67. 223	11. 462 12. 353	1.00 21.68 1.00 21.12	A	C
ATOM	1553	C	PRO	218	36. 123	64. 404	9. 950	1.00 21.12	A A	C C
ATOM	1554	Ŏ	PRO	218	36. 190	63. 183	10. 107	1.00 25.13	A	Õ
ATOM	1555	N	ASN	219	35. 909	64.948	8.756	1.00 22.93	A	Ň
ATOM	1556	CA	ASN	219	35. 756	64.071	7.600	1.00 22.31	Α	С
ATOM	1557	CB	ASN	219	34. 704	64. 622	6.631	1.00 22.48	Α	C
ATOM	1558	CG	ASN	219	35. 172	65. 849	5. 903	1.00 24.12	A	C
ATOM	1559		ASN	219	36. 373	66.076	5. 760	1.00 26.01	A	0
ATOM ATOM	1560 1561	C	ASN ASN	219 219	34. 230 37. 090	66. 640 63. 841	5. 411 6. 871	1.00 26.27	A	N C
ATOM	1562	0	ASN	219	37. 090 37. 115	63. 307	5. 760	1.00 21.20 1.00 20.94	A A	C 0
ATOM	1563	N	GLY	220	38. 184	64. 267	7. 499	1.00 20.34	A	N .
ATOM	1564	CA	GLY	220	39. 512	64.068	6.941	1.00 17.97	A	Ċ
ATOM	1565	C	GLY	220	40. 035	64.993	5.853	1.00 18.92	Ä	Č
ATOM	1566	0	GLY	220	41. 157	64. 801	5.375	1.00 20.28	A	0
ATOM	1567	N	THR	221	39. 242	65. 980	5. 447	1.00 17.57	Α	N

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					FI	G. 4	- 33			
MOTA	1568 C	۸	THR	221	39.654	66. 917	4. 408	1.00 15.80	Α	С
ATOM ATOM			THR	221	38. 540	67.942	4. 112	1.00 15.67	A	Č
ATOM			THR	221	37. 410	67. 269	3. 550	1.00 16.41	A	0
ATOM			THR	221	39. 019	69.004	3. 147	1.00 12.96	Ā	C
ATOM	1572 C		THR	221	40. 903	67.674	4.833	1.00 16.70	A	C
ATOM	1573 0		THR	221	41.884	67. 753	4.088	1.00 16.98	A	0
ATOM	1574 N		PHE	222	40. 864	68. 238	6.033	1.00 15.92	Α	N
ATOM			PHE	222	41.999	69.001	6.539	1.00 15.88	Α	С
ATOM			PHE	222	41.508	70. 253	7.262	1.00 15.20	A	C
ATOM			PHE	222	40.939	71.305	6.356	1.00 14.35	Α	С
ATOM			PHE	$\frac{222}{222}$	39.569	71.542	6.323	1.00 11.89	Α	С
ATOM			PHE	$\overline{222}$	41.782	72.097	5.571	1.00 14.45	Α	C
ATOM			PHE	222	39.046	72.550	5.533	1.00 13.50	Α	C
ATOM			PHE	222	41.269	73.112	4.771	1.00 12.61	Α	C
ATOM			PHE	222	39.897	73.342	4. 751	1.00 15.23	Α	C
ATOM	1583 C		PHE	222	42.907	68.228	7.494	1.00 16.13	Α	C
ATOM	1584 0		PHE	222	42.467	67.327	8. 211	1.00 16.82	Α	0
ATOM	1585 N	Ī	LEU	223	44. 187	68.582	7. 484	1.00 15.93	A	N
ATOM		ľΑ	LEU	223	45. 159	67.983	8. 385	1.00 14.81	A	C
ATOM	1587 C	B	LEU	223	46. 199	67. 142	7. 645	1.00 14.64	A	C
ATOM	1588 C	CG	LEU	223	47. 306	66.627	8. 584	1.00 14.94	A	C
ATOM	1589 C	D1	LEU	223	46.696	65. 773	9.687	1.00 11.99	A	C
ATOM	1590 C	D2	LEU	223	48. 338	65.830	7.808	1.00 11.50	A	C
ATOM	1591 C		LEU	223	45.848	69. 162	9.031	1.00 16.80	Ą	C
ATOM	1592   0		LEU	223	46. 398	70.028	8. 341	1.00 16.53	A	0
ATOM	1593 N		ALA	224	45. 790	69. 219	10.353	1.00 17.34	A	N
ATOM			ALA	224	46. 420	70. 308	11.073	1.00 18.47	A	C
ATOM			ALA	224	45. 422	70. 950	12.029	1.00 17.47	A	C
ATOM	1596 C		ALA	224	47. 596	69. 735	11.840	1.00 18.77	A	C
ATOM	1597 (		ALA	224	47. 587	68. 561	12. 205	1.00 19.22	A	0
ATOM	1598 N		TYR	225	48. 614	70. 551	12.078	1.00 17.68	A	N C
ATOM		CA	TYR	225	49.764	70.068	12.819	1.00 17.56	A	C
ATOM		CB	TYR	225	50. 726		11.091	1.00 16.48	A	C
ATOM		CG	TYR	225	51. 273	70. 108	10. 726	1.00 15.05 1.00 13.44	A	C C
ATOM			TYR	225	50. 551	70. 235	9. 533 8. 456	1.00 13.44	A A	Č
ATOM			TYR	225	51.050 52.514	70. 968 70. 740	10. 814	1.00 3.13	A	Č
ATOM			TYR	225		70. 740	9. 744	1.00 14.42	A	Č
ATOM			TYR	225	53. 025 52. 286	71. 583	8. 567	1.00 14.03	A	Č
ATOM		CZ	TYR TYR	225 225	52. 200	72. 292	7. 504	1.00 14.11	A	ŏ
ATOM		OH C	TYR	225 225	50.514	71. 182	13. 521	1.00 17.79	A	Č
MOTA		Š	TYR	$\begin{array}{c} 225 \\ 225 \end{array}$	50.314	72. 359	13. 229	1.00 19.91	A	ŏ
ATOM ATOM		N .	ALA	226	51.358	70. 796	14. 462	1.00 17.65	A	N
ATOM		ČA	ALA	226	52. 164	71.748	15. 201	1.00 17.74	A	Ċ
ATOM		CB	ALA	226	52. 104	71.472	16.687	1.00 18.89	A	č
ATOM		C	ALA	226	53. 601	71.575	14. 740	1.00 17.39	A	Č
ATOM		Ö	ALA	226	53. 966	70.527	14. 204	1.00 16.05	A	Ö
ATOM		Ŋ	GLN	227	54. 412	72.606	14. 941	1.00 17.45	Ā	N
ATOM		ĊA	GLN	$\overline{227}$	55.816	72.552	14.555	1.00 16.64	Α	С



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					FΙ	G. 4	- 34			
ATOM	1617	СВ	GLN	227	56.096	73. 423	13. 331	1.00 15.62	Α	С
ATOM	1618	CG	GLN	227	57. 514	73. 246	12. 799	1.00 16.35	A	Č
ATOM	1619	CD	GLN	227	57. 847	74. 191	11.666	1.00 14.31	A	Č
ATOM	1620		GLN	227	57. 877	75. 408	11.851	1.00 18.11	Ä	0
ATOM	1621		GLN	227	58. 101	73.639	10.486	1.00 12.45	Ä	Ň
ATOM	1622	C	GLN	227	56.615	73.073	15.723	1.00 16.27	A	С
ATOM	1623	ŏ	GLN	227	56.346	74.159	16. 225	1.00 16.33	A	0
ATOM	1624	N	PHE	228	57.601	72.301	16.158	1.00 17.36	Α	N
ATOM	1625	CA	PHE	228	58.414	72.717	17.287	1.00 16.81	Α	C
ATOM	1626	CB	PHE	228	58. 327	71.686	18.412	1.00 14.62	Α	С
ATOM	1627	CG	PHE	228	56.919	71.295	18.758	1.00 14.48	Α	С
ATOM	1628		PHE	228	56.317	70.196	18.141	1.00 14.37	Α	С
ATOM	1629	CD2	PHE	228	56.183	72.036	19.674	1.00 12.73	Α	С
ATOM	1630	CE1	PHE	228	55.007	69.840	18.430	1.00 13.56	Α	С
ATOM	1631	CE2	PHE	228	54.870	71.691	19.971	1.00 14.73	Α	С
ATOM	1632	CZ	PHE	228	54. 279	70.588	19. 348	1.00 15.31	A	С
ATOM	1633	C	PHE	228	59.848	72.922	16.859	1.00 18.12	A	C
ATOM	1634	0	PHE	228	60.410	72.121	16.112	1.00 17.47	Α	0
ATOM	1635	N	ASN	229	60.413	74.027	17. 335	1.00 20.00	A	N
ATOM	1636	CA	ASN	229	61.779	74. 435	17.042	1.00 20.87	Α	C
ATOM	1637	CB	ASN	229	61.767	75.857	16.474	1.00 21.57	A	C
ATOM	1638	CG	ASN	229	63.086	76. 257	15.870	1.00 24.35	A	C
ATOM	1639		ASN	229	64. 141	75. 774	16. 289	1.00 26.00	A	0
ATOM	1640		ASN	229	63. 025	77. 153	14. 887	1.00 25.62	A	N
ATOM	1641	C	ASN	229	62. 540	74. 421	18. 362	1.00 21.39	A	C
ATOM	1642	0	ASN	229	62. 232	75. 200	19. 269	1.00 21.52	A	0
ATOM	1643	N	ASP	230	63. 516	73.530	18. 481	1.00 20.96	A	N
ATOM	1644	CA	ASP	230	64. 300	73.444	19.706	1.00 22.78	A	C
ATOM	1645	CB	ASP	230	64. 275	72.026	20. 268	1.00 22.69	A	C
ATOM	1646	CG	ASP	230	62. 880	71.551	20. 580	1.00 22.37	A	C
ATOM	1647		ASP	230	62.681	71.015	21.689	1.00 21.57 1.00 21.82	A	0
ATOM	1648		ASP	230	61.993 65.734	71.705	19.713	1.00 21.82	A	0
ATOM		C	ASP	$\begin{array}{c} 230 \\ 230 \end{array}$	66.663	73. 252	19. 412	1.00 24.30	A	C
ATOM ATOM	1650 1651	O N	THR	230 231	65. 904	74. 803	18. 527	1.00 24.72	A A	0 N
ATOM	1652	CA	THR	231	67. 228	75. 245	18. 122	1.00 26.22	A	N C
ATOM	1653	CB	THR	231	67. 149	76. 406	17. 109	1.00 20.22	A	C
ATOM	1654	0G1		231	66. 540	75.947	15. 893	1.00 28.62	A	0
ATOM	1655		THR	231	68. 545	76. 947	16.813	1.00 26.62	A	Č
ATOM	1656	C	THR	231	68. 099	75.688	19. 280	1.00 26.77	A	č
ATOM	1657	ŏ	THR	231	69. 254	75. 277	19. 375	1.00 27.34	A	ŏ
ATOM	1658	N	GLU	232	67. 550	76. 519	20. 163	1.00 25.50	A	Ň
ATOM	1659	CA	GLU	232	68. 329	77. 020	21. 285	1.00 24.52	A	Č
ATOM	1660	CB	GLU	232	68. 154	78. 526	21.397	1.00 28.36	A	č
ATOM	1661	ĊĠ	GLU	232	68. 615	79. 281	20. 171	1.00 34.72	Ā	Č
ATOM	1662	CD	GLU	232	68. 483	80.780	20. 338	1.00 40.02	Α	Č
ATOM	1663	0E1	GLU	232	68.767	81.509	19.363	1.00 44.21	Α	0
ATOM	1664		GLU	232	68.100	81.232	21.444	1.00 42.26	Α	0
ATOM	1665	С	GLU	232	68. 020	76.377	22. 627	1.00 22.97	Α	С

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ATOM	1666	0	GLU	232	68. 331	76. 942	23. 679	1.00 20.81	A	0		
ATOM	1667	N	VAL	233	67.416	75. 194	22. 596	1.00 20.32	A	N		
ATOM	1668	CA	VAL	233	67. 091	74. 499	23. 832	1.00 17.88	A	C		
ATOM	1669	CB	VAL	233	65.853		23. 648	1.00 17.88 1.00 14.00	A	C C		
ATOM	1670	CG1	VAL	233	65. 522		24. 957	1.00 14.00	A	C		
ATOM	1671	CG2		233	64.678		23. 160	1.00 16.73	A A	C		
ATOM	1672	C	VAL	233	68. 261 68. 694	73. 642 72. 728	24. 304 23. 606	1.00 15.00	A	0		
ATOM	1673	0 N	VAL	$\begin{array}{c} 233 \\ 234 \end{array}$	68. 788		25. 504	1.00 13.34	A	N		
ATOM	1674	N CD	PRO PRO	$\begin{array}{c} 234 \\ 234 \end{array}$	68.313		26. 494	1.00 14.01	A	Ċ		
ATOM ATOM	1675 1676	CA	PRO	$\begin{array}{c} 234 \\ 234 \end{array}$	69. 914		26. 040	1.00 13.93	A	č		
ATOM	1677	CB	PRO	234	70.031	73.677	27. 473	1.00 12.63	Ä	č		
ATOM	1678	CG	PRO	234	69.517		27. 377	1.00 11.32	Ā	Č		
ATOM	1679	C	PRO	234	69.643		25. 987	1.00 16.20	Ā	C		
ATOM	1680	ŏ	PRO	234	68. 487		26.041	1.00 15.73	A	0		
ATOM	1681	Ň	LEU	235	70.716		25.900	1.00 16.28	Α	N		
ATOM	1682	CA	LEU	235	70.602	69.443	25.825	1.00 16.91	Α	С		
ATOM	1683	CB	LEU	235	71.505		24.718	1.00 18.54	Α	C		
<b>ATOM</b>	1684	CG	LEU	235	71.267		23.273	1.00 21.93	Α	С		
ATOM	1685	CD1	LEU	235	72.434		22.412	1.00 21.90	A	C		
ATOM	1686	CD2	LEU	235	69. 946		22.768	1.00 19.17	Α	Ċ		
ATOM	1687	C	LEU	235	70. 990		27.118	1.00 17.26	A	C		
ATOM	1688	0	LEU	235	71.939		27. 793	1.00 18.36	A	0		
ATOM	1689	N	ILE	236	70. 244		27. 472	1.00 14.95	A	N		
ATOM	1690	CA	ILE	236	70. 586		28.644	1.00 12.68	A	C		
ATOM	1691	CB	ILE	236	69. 345		29. 335	1.00 10.50	A	C		
ATOM	1692		ILE	236	68. 538		28. 329	1.00 9.32	A	C		
ATOM	1693		ILE	236	69. 806		30. 448	1.00 8.74	A	C C		
ATOM	1694		ILE	236	70. 789		31. 427 28. 010	1.00 7.11 1.00 12.84	A A	C		
ATOM	1695	C	ILE ILE	$\begin{array}{c} 236 \\ 236 \end{array}$	71.444 71.105		26. 942	1.00 12.04	A	Ö		
ATOM ATOM	1696 1697	O N	GLU	230 237	72. 558		28. 650	1.00 10.11	A	N N		
ATOM	1698		GLU	237	73. 463			1.00 12.44		Ċ		
ATOM	1699	CB	GLU	237	74. 767		27.655	1.00 13.45	Ä	č		
ATOM	1700	CG	GLU	237	74. 554		26.500	1.00 18.02	Ä	Č		
ATOM	1701	CD	GLU	237	75. 845		25. 819	1.00 23.46	Ä	Č		
ATOM	1702		GLÜ	237	75. 779		24.683	1.00 25.80		0		
ATOM	1703		GLU	237	76.928		26.408	1.00 26.23		0		
ATOM	1704	C	GLU	237	73. 744		29. 191	1.00 13.41	Α	С		
ATOM	1705	0	GLU	237	73. 895		30.363	1.00 14.43	Α	0		
ATOM	1706	N	TYR	238	73. 801	62.169	28. 781	1.00 12.83		N		
ATOM	1707	CA	TYR	238	74.052		29. 721	1.00 14.06	A	C		
ATOM	1708	CB	TYR	238	72.810		30. 595	1.00 12.42		C		
ATOM	1709	CG	TYR	238	71.566		29.856	1.00 11.79	A	C C C		
ATOM	1710		TYR	238	71. 451		29. 317	1.00 16.12		C		
ATOM	1711		TYR	238	70. 292		28. 635	1.00 17.09		C		
ATOM	1712		TYR	238	70. 496		29. 701	1.00 12.13		C		
ATOM	1713		TYR	238	69. 336		29.020	1.00 12.94		C		
ATOM	1714	CZ	TYR	238	69. 243	59.634	28. 487	1.00 15.48	А	U		

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					F	1	G. 4	- 36					
ATOM	1715	ОН	TYR	238	68. 1	27	59. 257	27. 775	1, 00	15.96	Α	0	
ATOM	1716	C	TYR	238	74.4		59.847	28.954		15.25	A	С	
ATOM	1717	Ŏ	TYR	238	74. 0		59.667	27. 798		17.74	Α	0	
ATOM	1718	Ň	SER	239	75. 2		58.986	29. 596		14.10	Α	N	
ATOM	1719	CA	SER	239	75.6		57.779	28.943	1.00	13.87	Α	C	
ATOM	1720	CB	SER	239	76.9		57. 251	29.656	1.00	11.90	Α	C	
ATOM	1721	0G	SER	239	77.9		58.265	29.766	1.00	18.76	Α	0	
ATOM	1722	С	SER	239	74.6		56.668	28.879	1.00	13.45	Α	С	
ATOM	1723	0	SER	239	73.7	55	56.587	29.700		14.39	Α	0	
ATOM	1724	N	PHE	240	74.8	09	55.834	27.862		12.12	Α	N	
ATOM	1725	CA	PHE	240	73.9	72	54.678	27.679		12.95	Α	C	
ATOM	1726	CB	PHE	240	73.0		54.833	26.523		12.48	Α	С	
ATOM	1727	CG	PHE	240	71.8		53.843	26.574		11.50	Α	C	
ATOM	1728		PHE	240	70.8		54.037	27. 436		10.15	A	C	
ATOM	1729		PHE	240	71.9		52.655	25.858		11.95	A	C	
ATOM	1730		PHE	240	69.8		53.064	27. 597		10.78	A	C	
ATOM	1731		PHE	240	71.0		51.675	26.012		11.03	A	C	
ATOM	1732	CZ	PHE	240	69. 9		51.878	26. 888		10.46	A	C	
ATOM	1733	C	PHE	240	75.0		53. 652	27. 330		14.83	A	C	
ATOM	1734	0	PHE	240	75.7		53. 805	26. 335		18.18	A	0	
ATOM	1735	N	TYR	241	75. 1		52. 617	28. 153		13. 74	A	N	
ATOM	1736	CA	TYR	241	76. 1		51.612	27. 958		13. 29	A	C	
ATOM	1737	CB	TYR	241	76. 5		51.057	29. 329		13.69	A	C	
ATOM	1738	CG	TYR	241	76.8		52. 167	30. 317		10.88	A	C	
ATOM	1739	CD1 CE1	TYR TYR	241 241	78. 0 78. 3		52. 821 53. 894	30. 308 31. 168	1.00	11.93 9.47	A	C	
ATOM ATOM	1740 1741		TYR	241	75. 8		52. 610	31. 218		12. 15	A A	C	
ATOM	1742		TYR	241	76. 1		53. 678	32. 080		11.02	A	Č	
ATOM	1743	CZ	TYR	241	77. 3		54. 319	32.046		12. 15	A	Č	
ATOM	1744	OH	TYR	241	77. 5		55. 408	32. 859		10.38	A	Õ	
ATOM	1745	C	TYR	241	75. 7		50. 510	26. 967		14.62	A	Č	
ATOM	1746	ŏ	TYR	241	76. 6		49. 948	26. 322		12. 20	A	Õ	
ATOM	1747	Ň	SER	$\overline{242}$	74. 5		50. 204	26.837		16.13	Ä	Ň	
ATOM	1748	ĊA	SER	242	74.0		49. 180	25.888		16.13	A	Ċ	
ATOM	1749	CB	SER	242	74.4		49.590	24.469		16.30	A	Ċ	
ATOM	1750	0G	SER	242	74.0		48.674	23.496		17.85	Α	0	
ATOM	1751	C.	SER	242	74.6		47.816	26. 226		17.46	Α	С	
ATOM	1752	0	SER	242	75. 2	19	47.625	27.303	1.00	19.13	Α	0	
ATOM	1753	N	ASP	243	74.5	16	46.865	25.312	1.00	19.34	Α	N	
ATOM	1754	CA	ASP	243	75.0	66	45.535	25.548	1.00	23.36	Α	C	
ATOM	1755	CB	ASP	243	74.7		44.605	24.369		27.30	Α	C	
ATOM	1756	CG	ASP	243	73. 2		44. 419	24. 132		33.83	Α	C	
ATOM	1757		ASP	243	72.5		44. 246	25. 126		36.97	A	0	
ATOM	1758		ASP	243	72.8		44. 438	22. 955		37. 15	A	0	
ATOM	1759	C	ASP	243	76.5		45. 554	25.805		23. 56	A	C	
ATOM	1760	0	ASP	243	77. 2		46. 432	25. 330		22.48	A	0	
ATOM	1761	N	GLU	244	77.0		44. 559	26. 567		24. 45	A	N	
ATOM	1762	CA	GLU	244	78. 4		44. 363	26.944		22.80	A	C	
ATOM	1763	CB	GLU	244	78. 5	<b>34</b>	42. 984	27. 605	1.00	23. 73	. A	С	

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										(Continued)
					FΙ	G. 4	- 37			(001101111100)
ATOM	1764	CG	GLU	244	79. 940	42. 547	27. 995	1.00 29.35	Α	С
ATOM	1765	CD	GLU	244	79. 967	41.177	28.667	1.00 29.80	A	č
ATOM	1766		GLU	244	81.079	40.680	28. 958	1.00 29.53	A	ŏ
ATOM	1767		GLU	244	78. 877	40.601	28. 903	1.00 29.32	A	ŏ
ATOM	1768	C	GLU	244	79. 374	44. 476	25. 754	1.00 22.28	A	č
ATOM	1769	Õ	GLU	244	80. 533	44. 854	25. 913	1.00 21.94	A	ŏ
ATOM	1770	N	SER	245	78. 888	44. 159	24. 561	1.00 21.62	Ä	Ň
ATOM	1771	CA	SER	245	79. 724	44. 205	23. 370	1.00 19.92	A	Ċ
ATOM	1772	CB	SER	245	79. 080	43. 402	22. 244	1.00 19.31	A	č
ATOM	1773	0G	SER	245	77. 949	44.068	21. 723	1.00 17.93	A	ŏ
ATOM	1774	Č	SER	245	80. 044	45.605	22: 861	1.00 19.58	A	Č
ATOM	1775	ŏ	SER	245	80. 874	45. 762	21. 971	1.00 21.35	Ä	Ö
ATOM	1776	Ň	LEU	246	79. 392	46. 628	23. 397	1.00 18.69	Ä	Ň
ATOM	1777	ĊA	LEU	246	79. 694	47. 983	22. 943	1.00 18.41	A	Ċ
ATOM	1778	CB	LEU	246	78. 522	48. 926	23. 229	1.00 18.20	A	Č
ATOM	1779		LEU	246	78. 659	50.368	22. 728	1.00 17.99	Ā	Ċ
ATOM	1780		LEU	246	78. 736	50.388	21. 214	1.00 16.83	A	Č
ATOM	1781		LEU	246	77. 458	51.181	23. 192	1.00 19.98	A	С
ATOM	1782	C	LEU	246	80.943	48.463	23.679	1.00 18.12	Α	С
ATOM	1783	0	LEU	246	80. 921	48.662	24.895	1.00 16.81	Α	0
ATOM	1784	N	GLN	247	82.034	48.635	22.940	1.00 17.84	Α	N
ATOM	1785	CA	GLN	247	83. 295	49.073	23. 532	1.00 17.30	Α	С
ATOM	1786	CB	GLN	247	84.400	49.038	22.480	1.00 15.11	Α	C
ATOM	1787	CG	GLN	247	85. 791	49. 234	23.045	1.00 17.62	Α	C
ATOM	1788	CD	GLN	247	86.875	48.770	22.090	1.00 18.47	Α	C
ATOM	1789	0E1	GLN	247	86. 829	49.065	20.899	1.00 20.53	Α	0
ATOM	1790	NE2	GLN	247	87.862	48.049	22.611	1.00 17.76	A	N
ATOM	1791	С	GLN	247	83. 224	50.461	24.170	1.00 17.66	Α	C
ATOM	1792	0	GLN	247	83.640	50.648	25.313	1.00 17.56	Α	0
ATOM	1793	N	TYR	248	82.710	51.436	23.430	1.00 18.50	Α	N
ATOM	1794	CA	TYR	248	82.592	52. 794	23.954	1.00 19.00	Α	C
ATOM	1795	CB	TYR	248	83. 177	53.822	22.972	1.00 17.39	Α	C
ATOM	1796	CG	TYR	248	84. 684	53.820	22.860	1.00 16.80	Α	C
ATOM	1797		TYR	248	85. 353	52.812	22.172	1.00 17.20	Α	C
ATOM	1798		TYR	248	86. 742	52.814	22.058	1.00 17.58	A	C
ATOM	1799		TYR	248	85. 444	54.838	23. 437	1.00 17.77	A	C
ATOM	1800		TYR	248	86. 839	54.851	23. 333	1.00 17.22	A	C
ATOM	1801	CZ	TYR	248	87. 479	53.836	22.647	1.00 18.42	A	C
ATOM	1802	OH.	TYR	248	88. 854	53.809	22.595	1.00 19.27	A	0
ATOM	1803	C	TYR	248	81. 130	53. 134	24. 212	1.00 18.87	A	C
ATOM	1804	0	TYR	248	80. 288	53.018	23. 323	1.00 19.15	A	0
ATOM	1805	N	PRO	249	80. 804	53. 549	25.440	1.00 18.20	A	N
ATOM	1806	CD	PRO	249	81.610	53. 595	26.668	1.00 18.21	A	C
ATOM	1807	CA	PRO	249	79.411	53.886	25.716	1.00 18.83	A	C
ATOM	1808	CB	PRO	249	79. 424	54. 222	27. 206	1.00 19.46	A	C
ATOM	1809 1810	CG C	PRO	249	80. 857	54. 582	27. 481	1.00 17.63 1.00 19.66	A	C C
ATOM	1811	0	PRO PRO	249	78. 937	55. 042 55. 864	24. 852 24. 413	1.00 19.00	A A	0
ATOM	1812	N	LYS	249 250	79. 734	55. 096	24. 413	1.00 20.92	A A	N N
ATOM	1014	1.4	r12	250	77. 638	JJ. UBU	44. 099	1.00 13.01	A	14

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										(Con	tinued)
					FΙ	G. 4	- 38				
ATOM	1813	CA	LYS	250	77. 083	56. 158	23. 785	1.00 19.61	Α	С	
ATOM	1814		LYS	250 250	75. 933	55.618	22. 936	1.00 23.51	Ä	C	
ATOM	1815		LYS	250 250	76. 320	54. 428	22.089	1.00 28.40	Ä	Ċ	
ATOM	1816		LYS	250 250	75. 197	54.010	21.152	1.00 30.62	A	Č	
ATOM	1817		LYS	250 250	75. 698	52. 938	20. 203	1.00 32.02	Ä	Č	
	1818	NZ	LYS	250 250	76. 966	53. 385	19.546	1.00 32.62	A	N	
ATOM	1819	C	LYS	250 250	76. 580	57. 320	24. 628	1.00 17.92	A	Ċ	
ATOM	1820	0	LYS	250 250	76. 130	57. 130	25. 758	1.00 17.90	A	Ŏ	
ATOM	1821	N	THR	250 251	76. 663	58. 524	24.077	1.00 14.61	A	Ň	
ATOM	1822	CA	THR	251	76. 171	59.689	24. 786	1.00 15.48	A	Ċ	
ATOM	1823	CB	THR	251 251	77. 104	60. 887	24.666	1.00 13.61	A	č	
ATOM	1824	0G1	THR	251	78. 280	60.654	25. 441	1.00 15.96	A	Ŏ	
ATOM			THR	251	76. 414	62. 137	25. 181	1.00 13.93	A	Č	
ATOM	1825	CGZ	THR	251	74. 832	60.086	24. 205	1.00 16.04	A	č	
ATOM	1826		THR	251 251	74. 755	60. 572	23. 083	1.00 10.04	A	ŏ	
ATOM	1827	0 N	VAL	252	73. 779	59. 860	24. 977	1.00 15.27	A	N	
ATOM	1828	N	VAL	252 252	72. 439	60. 205	24. 559	1.00 16.08	A	Ċ	
ATOM	1829	CA	VAL	252 252	71. 405	59. 381	25. 355	1.00 16.76	A	Č	
ATOM	1830	CB		252 252	69. 987	59. 832	25. 014	1.00 16.10	A	Č	
ATOM	1831		VAL		71. 595	57. 895	25. 050	1.00 13.65	A	Č	
ATOM	1832	CG2	VAL	252	72. 223	61.699	24. 799	1.00 13.03	A	č	
ATOM	1833	C	VAL	252				1.00 19.01	A	Õ	
ATOM	1834	0	VAL	252	72. 443	62. 212	25. 905 23. 754	1.00 19.01	A	N	
ATOM	1835	N	ARG	253	71. 799	62. 398		1.00 19.18	A	C	
ATOM	1836	CA	ARG	253	71.568	63. 831	23. 842	1.00 18.34	A	C	
ATOM	1837	CB	ARG	253	72. 574	64. 567	22. 949	1.00 19.40	A	C	
ATOM	1838	CG	ARG	253	74. 014	64. 439	23. 457	1.00 29.04	A	C	
ATOM	1839	CD	ARG	253	75. 021	65.066	22. 519			N	
ATOM	1840	NE C7	ARG	253	75. 797	64. 044	21.822	1.00 35.89 1.00 38.08	A		
ATOM	1841	CZ	ARG	253	77.013	63. 647	22. 185		A	C	
ATOM	1842		ARG	253	77. 606	64. 191	23. 241	1.00 39.69	A	N	
ATOM	1843		ARG	253	77. 633	62.699	21.497	1.00 40.12	A	N	
ATOM	1844	C	ARG	253	70.140	64. 156	23. 449	1.00 17.33	A	C	
ATOM		0	ARG	253	69. 690			1.00 18.44	A	0 N	
ATOM	1846	N	VAL	254	69. 432	64. 836	24. 344	1.00 16.85	A	N	
ATOM	1847	CA	VAL	254	68. 033	65. 196	24. 125	1.00 15.67	A	C	
ATOM	1848	CB	VAL	254	67.079	64. 405	25.070	1.00 16.67	A	C	
ATOM	1849		VAL	254	65. 640	64.775	24. 766	1.00 16.79	A	C	
ATOM	1850		VAL	254	67. 308	62.899	24. 951	1.00 17.24	A	C	
ATOM	1851	C	VAL	254	67. 737	66.660	24. 405	1.00 14.62	A	C	•
ATOM	1852	0	VAL	254	68. 122	67. 186	25. 450	1.00 15.12	A	0	
ATOM	1853	N	PRO	255	67.048	67. 340	23. 475	1.00 13.71	A	N	
ATOM	1854	CD	PRO	255	66.677	66.945	22. 105	1.00 10.62	A	C	
ATOM	1855	CA	PRO	255	66. 725	68. 749	23. 730	1.00 13.00	A	C	
ATOM	1856	CB	PRO	255	66.064	69. 193	22. 431	1.00 13.28	A	C	
ATOM	1857	CG	PRO	255	66. 674	68. 265	21.397	1.00 13.45	A	C	
ATOM	1858	C	PRO	255	65. 735	68. 674	24. 899	1.00 13.86	A	C	
ATOM	1859	0	PRO	255	64. 663		24.772	1.00 13.58	A	0	
ATOM	1860	N	TYR	256	66. 108		26.032	1.00 13.63	A	N	
ATOM	1861	CA	TYR	256	65. 304	69. 194	27. 242	1.00 11.65	Α	C	

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TIG. 4 - 39  ATOM 1862 CB TYR 256 65.801 68.006 28.077 1.00 10.57 A C ATOM 1863 CG TYR 256 65.044 67.706 29.351 1.00 10.49 A C ATOM 1864 CD1 TYR 256 64.949 68.646 30.378 1.00 9.61 A C ATOM 1865 CE1 TYR 256 64.296 68.351 31.571 1.00 7.54 A C ATOM 1866 CD2 TYR 256 64.460 66.460 29.549 1.00 9.65 A C ATOM 1867 CE2 TYR 256 63.799 66.156 30.735 1.00 11.05 A C ATOM 1868 CZ TYR 256 63.722 67.105 31.742 1.00 10.10 A C ATOM 1869 OH TYR 256 63.060 66.801 32.909 1.00 10.49 A O ATOM 1870 C TYR 256 65.488 70.492 28.012 1.00 12.70 A C ATOM 1871 O TYR 256 66.559 70.750 28.553 1.00 15.49 A O ATOM 1872 N PRO 257 64.444 71.325 28.080 1.00 12.39 A N ATOM 1873 CD PRO 257 63.174 71.254 27.334 1.00 13.82 A C ATOM 1874 CA PRO 257 64.548 72.593 28.800 1.00 11.47 A C ATOM 1874 CA PRO 257 64.548 72.593 28.800 1.00 11.47 A C ATOM 1875 CB PRO 257 63.501 73.450 28.106 1.00 12.01 A C	(ha
ATOM 1862 CB TYR 256 65.801 68.006 28.077 1.00 10.57 A C ATOM 1863 CG TYR 256 65.044 67.706 29.351 1.00 10.49 A C ATOM 1864 CD1 TYR 256 64.949 68.646 30.378 1.00 9.61 A C ATOM 1865 CE1 TYR 256 64.296 68.351 31.571 1.00 7.54 A C ATOM 1866 CD2 TYR 256 64.460 66.460 29.549 1.00 9.65 A C ATOM 1867 CE2 TYR 256 63.799 66.156 30.735 1.00 11.05 A C ATOM 1868 CZ TYR 256 63.722 67.105 31.742 1.00 10.10 A C ATOM 1869 OH TYR 256 63.060 66.801 32.909 1.00 10.49 A O ATOM 1870 C TYR 256 65.488 70.492 28.012 1.00 12.70 A C ATOM 1871 O TYR 256 66.559 70.750 28.553 1.00 15.49 A O ATOM 1872 N PRO 257 64.444 71.325 28.080 1.00 12.39 A N ATOM 1873 CD PRO 257 63.174 71.254 27.334 1.00 13.82 A C ATOM 1874 CA PRO 257 64.548 72.593 28.800 1.00 11.47 A C ATOM 1875 CB PRO 257 64.548 72.593 28.800 1.00 11.47 A C	.cu/
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ATOM 1864 CD1 TYR 256 64. 949 68. 646 30. 378 1. 00 9. 61 A C ATOM 1865 CE1 TYR 256 64. 296 68. 351 31. 571 1. 00 7. 54 A C ATOM 1866 CD2 TYR 256 64. 460 66. 460 29. 549 1. 00 9. 65 A C ATOM 1867 CE2 TYR 256 63. 799 66. 156 30. 735 1. 00 11. 05 A C ATOM 1868 CZ TYR 256 63. 722 67. 105 31. 742 1. 00 10. 10 A C ATOM 1869 OH TYR 256 63. 060 66. 801 32. 909 1. 00 10. 49 A O ATOM 1870 C TYR 256 65. 488 70. 492 28. 012 1. 00 12. 70 A C ATOM 1871 O TYR 256 66. 559 70. 750 28. 553 1. 00 15. 49 A O ATOM 1872 N PRO 257 64. 444 71. 325 28. 080 1. 00 12. 39 A N ATOM 1873 CD PRO 257 63. 174 71. 254 27. 334 1. 00 13. 82 A C ATOM 1874 CA PRO 257 64. 548 72. 593 28. 800 1. 00 11. 47 A C ATOM 1875 CB PRO 257 63. 501 73. 450 28. 106 1. 00 12. 01	
ATOM 1865 CE1 TYR 256 64. 296 68. 351 31. 571 1. 00 7. 54 A C ATOM 1866 CD2 TYR 256 64. 460 66. 460 29. 549 1. 00 9. 65 A C ATOM 1867 CE2 TYR 256 63. 799 66. 156 30. 735 1. 00 11. 05 A C ATOM 1868 CZ TYR 256 63. 722 67. 105 31. 742 1. 00 10. 10 A C ATOM 1869 OH TYR 256 63. 060 66. 801 32. 909 1. 00 10. 49 A O ATOM 1870 C TYR 256 65. 488 70. 492 28. 012 1. 00 12. 70 A C ATOM 1871 O TYR 256 66. 559 70. 750 28. 553 1. 00 15. 49 A O ATOM 1872 N PRO 257 64. 444 71. 325 28. 080 1. 00 12. 39 A N ATOM 1873 CD PRO 257 63. 174 71. 254 27. 334 1. 00 13. 82 A C ATOM 1874 CA PRO 257 64. 548 72. 593 28. 800 1. 00 11. 47 A C ATOM 1875 CB PRO 257 63. 501 73. 450 28. 106 1. 00 12. 01	
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ATOM 1868 CZ TYR 256 63. 722 67. 105 31. 742 1. 00 10. 10 A C ATOM 1869 OH TYR 256 63. 060 66. 801 32. 909 1. 00 10. 49 A O ATOM 1870 C TYR 256 65. 488 70. 492 28. 012 1. 00 12. 70 A C ATOM 1871 O TYR 256 66. 559 70. 750 28. 553 1. 00 15. 49 A O ATOM 1872 N PRO 257 64. 444 71. 325 28. 080 1. 00 12. 39 A N ATOM 1873 CD PRO 257 63. 174 71. 254 27. 334 1. 00 13. 82 A C ATOM 1874 CA PRO 257 64. 548 72. 593 28. 800 1. 00 11. 47 A C ATOM 1875 CB PRO 257 63. 501 73. 450 28. 106 1. 00 12. 01	
ATOM 1869 OH TYR 256 63.060 66.801 32.909 1.00 10.49 A O ATOM 1870 C TYR 256 65.488 70.492 28.012 1.00 12.70 A C ATOM 1871 O TYR 256 66.559 70.750 28.553 1.00 15.49 A O ATOM 1872 N PRO 257 64.444 71.325 28.080 1.00 12.39 A N ATOM 1873 CD PRO 257 63.174 71.254 27.334 1.00 13.82 A C ATOM 1874 CA PRO 257 64.548 72.593 28.800 1.00 11.47 A C ATOM 1875 CB PRO 257 63.501 73.450 28.106 1.00 12.01 A C	
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ATOM 1873 CD PRO 257 63.174 71.254 27.334 1.00 13.82 A C ATOM 1874 CA PRO 257 64.548 72.593 28.800 1.00 11.47 A C ATOM 1875 CB PRO 257 63.501 73.450 28.106 1.00 12.01 A C	
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ATOM 1885 NZ LYS 258 68.671 68.536 34.223 1.00 10.80 A N ATOM 1886 C LYS 258 64.517 73.984 33.011 1.00 12.44 A C	
ATOM 1887 0 LYS 258 64.368 74.921 32.224 1.00 11.13 A 0	
ATOM 1888 N ALA 259 64.124 74.043 34.280 1.00 13.33 A N	
ATOM 1889 CA ALA 259 63.484 75.236 34.844 1.00 14.81 A C	
ATOM 1890 CB ALA 259 63.368 75.097 36.355 1.00 16.40 A C	
ATOM 1891 C ALA 259 64.167 76.555 34.508 1.00 15.14 A C	
ATOM 1892 O ALA 259 65.317 76.787 34.881 1.00 17.32 A O	
ATOM 1893 N GLY 260 63.448 77.419 33.802 1.00 16.82 A N	
ATOM 1894 CA GLY 260 63.984 78.720 33.444 1.00 15.59 A C	
ATOM 1895 C GLY 260 64.870 78.749 32.217 1.00 15.78 A C	
ATOM 1896 O GLY 260 65.379 79.812 31.852 1.00 17.65 A O	
ATOM 1897 N ALA 261 65.072 77.600 31.577 1.00 13.77 A N	
ATOM 1898 CA ALA 261 65.906 77.554 30.379 1.00 11.19 A C	
ATOM 1899 CB ALA 261 66.524 76.182 30.224 1.00 10.21 A C	
ATOM 1900 C ALA 261 65.093 77.911 29.137 1.00 10.04 A C	
ATOM 1901 O ALA 261 63.896 78.160 29.212 1.00 8.71 A O	
ATOM 1902 N VAL 262 65.747 77.947 27.987 1.00 11.73 A N	
ATOM 1903 CA VAL 262 65.050 78.284 26.761 1.00 12.13 A C	
ATOM 1904 CB VAL 262 66.035 78.529 25.594 1.00 11.50 A C	
ATOM 1905 CG1 VAL 262 65.257 78.796 24.299 1.00 8.31 A C	
ATOM 1906 CG2 VAL 262 66.939 79.732 25.920 1.00 5.79 A C	
ATOM 1907 C VAL 262 64.092 77.167 26.389 1.00 13.92 A C	
ATOM 1908 0 VAL 262 64.471 76.001 26.341 1.00 16.73 A 0	
ATOM 1909 N ASN 263 62.844 77.536 26.139 1.00 13.49 A N	
ATOM 1910 CA ASN 263 61.816 76.585 25.773 1.00 13.67 A C	

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											(Con	tinued)
					मा (	G. 4	- 40				(COII	tiii ueu/
						<b>.</b> .						
ATOM	1911	CB	ASN	263	60.470	77.038	26.336	1.00 1		Α	С	
ATOM	1912	CG	ASN	263	60.222	76.545	27.746	1.00 1		Α	C	
ATOM	1913	0D1	ASN	263	59. 342	77.058	28. 444	1.00 1		Α	0	
ATOM	1914	ND2	ASN	263	60.977	75.534	28.169	1.00 1		Α	N	
ATOM	1915	C	ASN	263	61.715	76.500	24.265	1.00 1	4.45	Α	C	
ATOM	1916	0	ASN	263	62.170	77.395	23. 561	1.00 1	6.33	Α	0	
ATOM	1917	N	PR0	264	61.119	75.418	23.743	1.00 1	4.86	Α	N	
ATOM	1918	CD	PR0	264	60.513	74.254	24.412	1.00 1	5.86	Α	С	
ATOM	1919	CA	PR0	264	60. 986	75. 301	22. 294	1.00 1	5.41	Α	C	
ATOM	1920	CB	PR0	264	60. 591	73.844	22.106	1.00 1	4.97	Α	C	
ATOM	1921	CG	PR0	264	59. 721	73.607	23. 287	1.00 1	4.81	Α	C	
ATOM	1922	C	PR0	264	59.867	76.238	21.882	1.00 1	5.66	Α	С	
ATOM	1923	0	PR0	264	58. 954	76.496	22.663	1.00 1	7.42	Α	0	
ATOM	1924	N	THR	265	59. 942	76.767	20.673	1.00 1	5.76	Α	N	
ATOM	1925	CA	THR	265	58. 895	77.648	20.199	1.00 1	4.67	Α	C	
ATOM	1926	CB	THR	265	59. 458	78.779	19.341	1.00 1	5.37	Α	C	
ATOM	1927	0G1	THR	265	60.162	78.228	18. 223	1.00 1	5.98	Α	0	
ATOM	1928	CG2	THR	265	60.402	79.633	20.159	1.00 1	2.01	Α	C	•
ATOM	1929	C	THR	265	58.024	76.749	19.360	1.00 1		Α	C	
ATOM	1930	0	THR	265	58. 465	75.683	18.932	1.00 1		Α	0	
ATOM	1931	N	VAL	266	56. 794	77.170	19.113	1.00 1		Α	N	
ATOM	1932	CA	VAL	266	55.872	76.352	18. 347	1.00 1		Α	C	
ATOM	1933	CB	VAL	266	54.856	75.692	19. 274	1.00 1		Α	C	
ATOM	1934	CG1	VAL	266	54. 193	76. 766	20.130	1.00 1		Α	C	
ATOM	1935	CG2		266	53. 821	74.920	18.466	1.00 1		Α	C	
ATOM	1936	C	VAL	266	55. 115	77.180	17.350	1.00 1		Α	C	
ATOM	1937	0	VAL	266	54.995	78. 388	17.511	1.00 1		Α	0	
ATOM	1938	N	LYS	267	54.601	76. 501	16.327	1.00 1		Α	N	
ATOM	1939	CA	LYS	267	53.817	77. 107	15.262	1.00 1		Α	С	
ATOM	1940	CB	LYS	267	54.692	77. 389	14.050	1.00 1		Α	C	
ATOM	1941	CG	LYS	267	55. 642	78. 570	14.165	1.00 1		Α	C	
ATOM	1942	CD	LYS	267	<b>56. 348</b>	78. 713	12.833	1.00 1		Α	C	
ATOM	1943	CE	LYS	267	57. 313	79.864	12.788	1.00 1		A	C	
ATOM	1944	NZ	LYS	267	58. 007	79.844	11.459	1.00 1		A	N	
ATOM	1945	C	LYS	267	52.713	76.136	14.851	1.00 1		A	C	
ATOM	1946	0	LYS	267	52.885	74.916	14.930	1.00 1		A	0	
ATOM	1947	N	PHE	268	51.588	76.674	14. 389	1.00 1		A	Ŋ	
ATOM	1948	CA	PHE	268	50. 471	75.836	13.975	1.00 1		A	C	
ATOM	1949	CB	PHE	268	49. 249	76. 138	14.842	1.00 1		A	C	
ATOM	1950	CG	PHE	268	48. 237	75.041	14.846	1.00 1		A	C	
ATOM	1951		PHE	268	48. 467	73.872	15.562	1.00 1		A	C	
ATOM	1952		PHE	268	47.056	75. 159	14.115	1.00 1		A	C	
ATOM	1953		PHE	268	47. 537	72.836	15.551	1.00 1		A	C	
ATOM	1954		PHE	268	46. 120	74. 120	14. 101	1.00 1		A	C	
ATOM	1955	CZ	PHE	268	46. 366	72. 960	14.821	1.00 1		A	C	
ATOM	1956	C	PHE	268	50. 117	76.029	12.497	1.00 1		A	C	
ATOM	1957	0	PHE	268	50. 143	77. 144	11.981	1.00 1		A	0 N	
ATOM	1958	N	PHE	269	49. 767	74. 938	11.829	1.00 1		A	N	
ATOM	1959	CA	PHE	269	49.417	74.976	10.413	1.00 1	Z. (3	Α	С	

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										(Continued)
					FΙ	G. 4	- 41			(Continued)
ATOM	1960	CB	PHE		50. 597	74. 510		1.00 12.68	Α	C
ATOM	1961	CG	PHE		51.875			1.00 10.71	Α	C
ATOM	1962		PHE		52. 190			1.00 11.11	Α	C
ATOM	1963		PHE		52. 758			1.00 11.04	Α	C
ATOM	1964		PHE		53. 374			1.00 12.54	Α	C
ATOM	1965		PHE		53. 940			1.00 13.96	Α	C
ATOM	1966	CZ	PHE		54. 252		10. 339	1.00 13.89	Α	C
ATOM	1967	C	PHE		48. 270			1.00 12.37	Α	C
ATOM	1968	0	PHE		47. 937	73. 157	10.910	1.00 14.50	Α	0
ATOM	1969	N	VAL		47. 699	74. 193		1.00 13.63	Α	N
ATOM	1970	CA	VAL		46.626	73. 334		1.00 15.44	Α	C
ATOM	1971	CB	VAL	270	45. 228	73. 903	8. 815	1.00 14.59	Α	C
ATOM	1972	CG1		270	44. 153	72. 900	8. 383	1.00 12.94	Α	C
ATOM	1973		VAL	270	45. 110	74. 183	10.304	1.00 15.69	Α	C
ATOM	1974	C	VAL	270	46. 730	73. 198	6.975	1.00 16.91	Α	C
ATOM	1975	0	VAL	270	46.875	74. 188	6. 258	1.00 17.51	Α	0
ATOM	1976	N	VAL	271	46. 681	71.966	6.494	1.00 17.37	Α	N
ATOM	1977	CA	VAL	271	46.726	71.746	5.067	1.00 16.54	A	C
ATOM	1978	CB	VAL	271	47. 928	70.879	4.646	1.00 19.07	Α	C
ATOM	1979		VAL	271	47. 911	69. 548	5.400	1.00 20.07	Α	C C
ATOM	1980		VAL	271	47. 878	70.635	3. 131	1.00 18.62	Ą	
ATOM	1981	C	VAL	271	45. 456	71.041	4.641	1.00 15.09	A	C
ATOM	1982	0	VAL	271	44. 912	70. 226	5. 383	1.00 13.46	A	0
ATOM	1983	N	ASN	272	44. 988	71.394	3. 449	1.00 15.17	A	N
ATOM	1984	CA	ASN	272	43. 812	70. 802	2.832	1.00 14.94	A	Č
ATOM	1985	CB	ASN	272	43. 231	71. 767	1.797	1.00 13.83	A	C
ATOM	1986	CG	ASN	272	42.010	71. 205	1.093	1.00 14.46	A	C
ATOM	1987		ASN	272	41.822	69. 989	1.007	1.00 16.67	A	0
ATOM	1988		ASN	272	41.175	72.090	0.581	1.00 15.74	A	N
ATOM ATOM	1989 1990	C	ASN	272	44.310	69. 542	2.110	1.00 15.70	A	C
ATOM	1991	O N	ASN THR	$\begin{array}{c} 272 \\ 273 \end{array}$	44. 755	69.617	0.967	1.00 16.88	A	0
ATOM	1992	CA	THR	273	44. 241	68. 390	2.758	1.00 15.93	A	N
ATOM	1993	CB	THR	273	44.717	67. 169	2. 124	1.00 18.97	A	C
ATOM	1994	0G1	THR	273	44. 570 43. 201	65. 936	3.052	1.00 19.44	A	C
ATOM	1995		THR	273	45. 481	65. 794	3.471	1.00 19.69 1.00 19.20	A	0
ATOM	1996	C	THR	273	44. 009	66. 083 66. 870	4. 266 0. 813		A	C
ATOM	1997	Õ	THR	273	44. 550	66. 154	-0.028	1.00 19.92	A	C
ATOM	1998	N	ASP	274	42.811	67. 424	0.634	1.00 21.20 1.00 20.50	A	0 N
ATOM	1999	CA	ASP	274	42.032	67. 193	-0.584	1.00 20.30	A	N
ATOM	2000	CB	ASP	274	40. 578	67. 629	-0.390	1.00 20.30	A	C
ATOM	2001	CG	ASP	274	39. 705	66. 529	0.330	1.00 21.02	A	C
ATOM	2002		ASP	274	38. 543	66. 823	0.178	1.00 25.48	A A	O C
ATOM	2002		ASP	274	40. 168	65.375	0.327	1.00 20.38	A	0
ATOM	2004	C	ASP	274	42.573	67.870	-1.832	1.00 23.88	A	C
ATOM	2005	ŏ	ASP	274	42. 131	67. 556	-2.932	1.00 22.08	A	Ö
ATOM	2006	Ň	SER	275	43. 508	68. 802	-1.676	1.00 18.13	A	N
ATOM	2007	CA	SER	275	44. 073	69. 490	-2.834	1.00 18.83	A	Č
ATOM	2008	CB	SER	275	44. 284	70.969		1.00 19.37	Ä	č

					FIC	. 4	- 42			(Continued)
ATOM ATOM	2009 2010	OG C	SER SER	275 275	45.397	71. 121 68. 885	-1. 444 -3. 314	1. 00 24. 82 1. 00 19. 53	A A	0 C
ATOM ATOM	2011 2012	O N	SER LEU	$\begin{array}{c} 275 \\ 276 \end{array}$		69. 226 67. 986	-4.394 $-2.516$	1.00 19.59 1.00 19.83	A A	O N
ATOM ATOM	2013 2014	CA CB	LEU LEU	$\begin{array}{c} 276 \\ 276 \end{array}$		67. 348 66. 226	-2.846 $-1.849$	1.00 20.72 1.00 19.96	Α	С
ATOM	2015	CG	LEU	276	47.725	66.641	-0.392	1.00 13.30	A A	C C
ATOM ATOM	2016 2017		LEU LEU	$\begin{array}{c} 276 \\ 276 \end{array}$		65. 410 67. 622	0.456 $-0.277$	1.00 21.68	A	C C
ATOM	2018	C	LEU	276	47. 360	56. 790	-4.263	1.00 18.56 1.00 22.34	A A	C
ATOM ATOM	2019 2020	O N	LEU SER	$\begin{array}{c} 276 \\ 277 \end{array}$		67. 137 65. 925	-4.994 $-4.656$	1.00 24.63	A	0
ATOM	2021	CA	SER	277		35. 325	-4. 030 -5. 983	1. 00 22. 80 1. 00 23. 82	A A	N C
ATOM ATOM	2022 2023	CB OG	SER SER	$\begin{array}{c} 277 \\ 277 \end{array}$		64. 219 64. 756	-6.121 $-6.044$	1.00 22.59 1.00 23.44	A	C
ATOM	2024	C	SER	277	46.305	6.341	-7.097	1.00 23.44	A A	0 C
ATOM ATOM	2025 2026	O N	SER SER	$\begin{array}{c} 277 \\ 278 \end{array}$		6. 104 7. 472	-8. 231 -6. 768	1.00 26.86 1.00 25.44	A	0 N
ATOM	2027	CA	SER	278	45. 431 6	8. 522	-7. 745	1.00 25.44	A A	N C
ATOM ATOM	2028 2029	CB OG	SER SER	278 278		9. 121 0. 266	-7. 471 -8. 266	1.00 25.70 1.00 30.53	A A	C 0
ATOM	2030	C	SER	278	46.495 6	9.630	-7. 739	1.00 25.70	A	C
ATOM ATOM	2031 2032	O N	SER VAL	$\begin{array}{c} 278 \\ 279 \end{array}$		0. 414 9. 692	-8. 683 -6. 672	1.00 23.48 1.00 26.01	A A	O N
ATOM	2033	CA	VAL	279	48. 327 7	0.696	-6.565	1.00 28.42	A	C
ATOM ATOM	2034 2035	CB CG1	VAL VAL	279 279	48. 073 7 49. 372 7	1. 634 2. 211	-5. 350 -4. 834	1.00 29.96 1.00 32.19	A A	C C
ATOM	2036	CG2	VAL	279	47.148 7	2.768	-5.776	1.00 29.00	Α	C
ATOM ATOM	2037 2038	C 0	VAL VAL	279 279		0. 043 8. 872	-6. 470 -6. 088	1. 00 28. 21 1. 00 29. 00	A A	C 0
ATOM	2039	N	THR	280	50.728 7	0.801	-6.848	1.00 26.67	Α	N
ATOM ATOM	2040 2041	CA CB	THR THR	280 280		0. 306 1. 217	-6. 832 -7. 645	1. 00 26. 53 1. 00 27. 22	A A	C C
ATOM ATOM	2042 2043		THR	280	52.533 7	1.331	-8.986	1.00 29.98	Ä	0
ATOM	2043	CG2 C	THR THR	280 280		0. 645 0. 254	-7. 674 -5. 418	1. 00 26. 85 1. 00 26. 01	A A	C C
ATOM ATOM	2045 2046	O N	THR ASN	280 281	53. 184 6	9. 255	-4.986	1.00 27.33	A	0
ATOM	2047	CA	ASN	281		1. 341 1. 474	-4. 696 -3. 334	1.00 25.17 1.00 23.78	A A	N C
ATOM ATOM	2048 2049	CB CG	ASN ASN	281 281	54.190 7	2.250	-3.388	1.00 22.28	Α	C
ATOM	2050	0D1	ASN	281		2. 287 1. 576		1.00 22.87 1.00 20.83	A A	C 0
ATOM ATOM	2051 2052	ND2 C	ASN ASN	281 281		3. 136 2. 211	-2.056	1.00 22.18	Α	N
ATOM	2053	0	ASN	281	51.876 73	3. 431	-2.362	1.00 23.12 1.00 22.47	A A	C 0
ATOM ATOM	2054 2055	N CA	ALA ALA	282 282		1.460 2.018		1.00 23.33 1.00 23.40	A	N
ATOM	2056	CB	ALA	282	48.952 70	0. 895	-0.547	1.00 23.19	A A	C C
ATOM	2057	С	ALA	282	50. 320 72	2.912	-0.071	1.00 24.45	Α	C

F I G. 4 - 43												
ATOM	2058	0	ALA	282		. <del>4</del> 2. 487	0. 694	1.00	25. 49	A	0	
	2059	N	THR	283	49.817 74	1. 140	0.024		24.70	A	Ň	
ATOM		CA	THR	283 283		5.074	1.021		25. 33	A	Ċ	
ATOM ATOM	2060 2061	CB	THR	283 283		6. 540	0.539		27.36	A	č	
ATOM	2062	0G1	THR	283		5. 874	0.353		29.84	A	ŏ	
ATOM	2063	CG2	THR	283		5. 730	-0. 785		30.06	A	č	
ATOM	2064	CGZ	THR	283		1. 983	2.406		24.49	A	č	
ATOM	2065	0	THR	283		1.960	2. 578		24. 13	A	ŏ	
ATOM	2066	N	SER	284		1. 941	3. 396		23. 17	A	Ň	
ATOM	2067	CA	SER	284		1.872	4. 791		19.88	Ä	Ĉ	
ATOM	2068	CB	SER	284		1. 249	5. 624		15.88	A	č	
ATOM	2069	OG	SER	284		2.868	5. 350		14. 23	A	ŏ	
ATOM	2009	C	SER	284		5. 275	5. 288		19. 24	A	č	
	2070	0	SER	284 284		7.148	5. 253		18.08	A	ő	
ATOM	2072	N	ILE	285		5.478	5. 745		17.36	A	N	
ATOM ATOM	2072	CA	ILE	285 285		7. 771	6. 242		16.16	A	Ċ	
ATOM	2073	CB	ILE	285 285		3.003	5. 977		16. 93	A	č	
ATOM	2075	CG2		285 285		9. 446	6. 324		14.55	A	č	
	2076	CG2	ILE	285 285		7.691	4.513		14.89	A	č	
ATOM	2077	CD1	ILE	285 285		3. 526	3. 528		15.03	A	č	
ATOM ATOM	2078	CDI	ILE	285 285		7. 848	7. 733		16.46	A	č	
	2079	0	ILE	285 285		5. 963	8. 489		18.69	A	ő	
ATOM		N	GLN	286		3. 923	8. 159		16.66	A	N	
ATOM	2080	CA	GLN	286		9. 088	9. 563		16.43	A	Č	
ATOM	2081			286		9. 776	9.717	1.00		A	Č	
ATOM	2082	CB	GLN			0.070	11. 135		17.85	A	Č	
ATOM	2083	CG	GLN	286		). 713	11.135		21.44	A	C	
ATOM	2084	CD	GLN	286		1.005	12. 277		24. 09	A	0	
ATOM	2085	OE1	GLN GLN	286		). 939	10.028		19.13			
ATOM	2086			286			10.028		16.82	A ^	N C	
ATOM	2087	C	GLN	286		9.885	9.754		17. 23	A		
ATOM	2088	0 N	GLN	286		0. 844 9. 453	11.507		15.99	A	O N	
ATOM	2089	N	ILE	287				1.00		A		
ATOM	2090		ILE	287		9. 182	12. 355 12. 894			A	C	
ATOM	2091	CB	ILE	287			13.875		14. 14 14. 36	A	C	
ATOM	2092		ILE	287		9. 916 8. 621	13. 873		13. 29	A A	C C	
ATOM	2093			287		7.675	12. 202		14. 31	A	Č	
ATOM	2094		ILE	287		0.625	13. 506		15.35	A	Č	
ATOM	2095	C	ILE	287		9, 860	13. 300		14.39	A	0	
ATOM	2096	0 N	ILE	287					15.01		N N	
ATOM	2097	N	THR	288		1.894	13. 452			A		
ATOM	2098	CA	THR	288		2.465	14.482		16.71 17.36	A	C	
ATOM	2099	CB	THR	288		3.874	14. 093 13. 779		21.17	A A	C 0	
MOTA	2100	0G1	THR	288		4.679	13. 779		17.64	A	C	
ATOM	2101	CG2	THR	288		3.813	15.818		16.02	A	Č	
ATOM	2102	C	THR	288		2. 553			16. 28	A	0	
ATOM	2103	0	THR	288		2.668	15.888		16.31	A A	N N	
ATOM	2104	N	ALA	289		2. 488	16.881		16.67	A	C	
ATOM	2105	CA	ALA	289		2. 582	18. 232		18.89	A	C	
ATOM	2106	CB	ALA	289	49. 887 8	2, 262	19. 207	1.00	10.03	А	U	

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ATOM	0107	C	AT A	000	40 900	04 001	18. 467	1.00 18.05	٨	C	
ATOM	2107	C	ALA	289	48. 280	84.001	17. 733	1.00 18.03	A	C	
ATOM	2108	0	ALA	289	48. 629	84. 927	19. 487	1.00 19.12	A	0 N	
ATOM	2109	N	PRO	290	47. 436	84. 193		1.00 18.00	A	N	
ATOM	2110	CD	PRO	290	46.851	83. 189	20. 388		A	C	
ATOM	2111	CA	PRO	290	46. 906	85. 526	19. 783 20. 777	1.00 19.04 1.00 17.58	A	C	
ATOM	2112	CB	PRO	290	45. 791	85. 234			A	C	
ATOM	2113	CG	PRO	290	46.306	84. 055	21.499	1.00 19.78	A	C	
ATOM	2114	C	PRO	290	47. 976	86. 447	20. 369	1.00 20.45	A	C	
ATOM	2115	0	PRO	290	48. 866	85. 995	21.092	1.00 22.14	A	0 N	
ATOM	2116	N	ALA	291	47. 878	87. 735	20.054	1.00 19.85	A	N	
ATOM	2117	CA	ALA	291	48. 829	88. 728	20. 543	1.00 19.27	A	C	
ATOM	2118	CB	ALA	291	48. 330	90. 132	20. 213	1.00 17.30	A	C	
ATOM	2119	C	ALA	291	49. 101	88. 610	22.041	1.00 19.66	A	C	
ATOM	2120	0	ALA	291	50. 238	88. 791	22. 489	1.00 21.52	A	0	
ATOM	2121	N	SER	292	48. 074	88. 305	22.825	1.00 19.16	A	N	
ATOM	2122	CA	SER	292	48. 275	88. 185	24. 264	1.00 19.97	A	C	
ATOM	2123	CB	SER	292	46. 936	87. 983	24. 971	1.00 19.90	A	C	
ATOM	2124	0G	SER	292	46. 259	86. 839	24. 487	1.00 24.94	A	0	
ATOM	2125	C	SER	292	49. 244	87.055	24.618	1.00 20.24	A	C	
ATOM	2126	0	SER	292	49.686	86. 948	25. 760	1.00 21.86	A	0	
ATOM	2127	N	MET	293	49.566	86. 214	23.635	1.00 20.06	A	N	
ATOM	2128	CA	MET	293	50. 504	85.104	23. 818	1.00 18.78	A	C	
ATOM	2129	CB	MET	293	49. 987	83. 830	23. 149	1.00 17.35	A	C	
ATOM	2130	CG	MET	293	48. 795	83. 168	23. 797	1.00 15.90	A	C	
ATOM	2131	SD	MET	293	49. 139	82.503	25. 424	1.00 15.89	A	S	
ATOM	2132	CE	MET	293	47.655	82.993	26. 296	1.00 16.41	A	C	
ATOM	2133	C	MET	293	51.831	85. 487	23. 161	1.00 20.24	A	C	
ATOM	2134	0	MET	293	52. 912	85. 221	23.693	1.00 21.12	A	0	
ATOM	2135	N	LEU	294	51. 738	86.116	21.995	1.00 20.44	A	N	
ATOM	2136	CA	LEU	294	52. 918	86. 532	21. 255	1.00 21.31	A	C	
ATOM	2137	CB	LEU	294	52. 498	87.104	19.900	1.00 21.19	A	C	
ATOM	2138		LEU	294	51.850	86.092	18. 944	1.00 23.63	A	C	
ATOM	2139		LEU	294	51. 257	86. 820	17. 747	1.00 22.60	A	C	
ATOM	2140		LEU	294	52. 889	85.064	18. 493	1.00 20.94	A	C	
ATOM	2141	C	LEU	294	53. 818	87. 533	21.981	1.00 22.05	A	C	
ATOM	2142	0	LEU	294	54. 953	87. 742	21.564	1.00 23.39	A	0	
ATOM	2143	N	ILE	295	53. 329	88.156	23.053	1.00 21.86	A	N	
ATOM	2144	CA	ILE	295	54. 149	89.122	23. 792	1.00 22.24	A	C	
ATOM	2145	CB	ILE	295	53. 323	89. 938	24. 835	1.00 24.92	A	C	
ATOM	2146		ILE	295	52. 084	90.536	24. 196	1.00 25.08	A	C	
ATOM	2147		ILE	295	52. 906	89.034	25.998	1.00 25.57	A	C	
ATOM	2148		ILE	295	52. 157	89. 761	27. 085	1.00 26.45	A	C	
ATOM	2149	C	ILE	295	55. 271	88. 426	24. 565	1.00 21.97	A	C	
ATOM	2150	0	ILE	295	56. 218	89.064	25.006	1.00 23.91	A	0	
ATOM	2151	N	GLY	296	55. 154 56. 174	87.119	24. 749	1.00 20.65	A	N	
ATOM	2152	CA	GLY	296	56. 174	86. 401	25. 482	1.00 18.90	A	C	
ATOM	2153	C	GLY	296	56. 165	84. 922	25. 167	1.00 18.45	A	C	
ATOM	2154	0 N	GLY	296	55. 527	84. 503	24. 202	1.00 18.61	A	0 N	
ATOM	2155	N	ASP	297	56. 878	84. 132	25.967	1.00 16.58	Α	N	

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										(Continued)
					FΙ	G. 4	- 45			,
ATOM	2156	CA	ASP	297	56. 918	82. 694	25. 751	1.00 16.95	Α	С
ATOM	2157	CB	ASP	297	57. 960	82.032	26.650	1.00 18.00	A	č
ATOM	2158	CG	ASP	297	59. 366	82. 378	26. 253	1.00 18.62	A	č
ATOM	2159		ASP	297	59. 553	82. 882	25. 128	1.00 18.23	A	Ö
ATOM	2160		ASP	297	60. 284	82. 134	27.063	1.00 21.29	A	Ö
ATOM	2161	C	ASP	297	55. 553	82.096	26.041	1.00 16.02	A	Č
ATOM	2162	ŏ	ASP	297	54. 847	82. 537	26. 942	1.00 16.36	A	Ö
ATOM	2163	Ň	HIS	298	55. 190	81.079	25. 279	1.00 14.79	A	N
ATOM	2164	CA	HIS	298	53. 901	80.449	25.460	1.00 16.82	A	Č
ATOM	2165	CB	HIS	298	52.846	81. 207	24.661	1.00 14.81	A	Č
ATOM	2166	ĊĠ	HIS	298	53. 245	81.448	23. 241	1.00 15.31	A	Ċ
ATOM	2167		HIS	298	52. 921	80.793	22.099	1.00 14.85	Ā	Č
ATOM	2168		HIS	298	54.127	82.442	22.876	1.00 13.01	Ā	N
ATOM	2169		HIS	298	54. 327	82.392	21.572	1.00 14.39	Α	C
ATOM	2170		HIS	298	53.608	81.400	21.076	1.00 14.38	Α	N
ATOM	2171	C	HIS	298	53. 956	79.008	24.979	1.00 17.54	A	C
ATOM	2172	0	HIS	298	55.008	78.519	24.560	1.00 15.53	Α	0
ATOM	2173	N	TYR	299	52.802	78.348	25.031	1.00 17.25	Α	N
ATOM	2174	CA	TYR	299	52.675	76.963	24.609	1.00 16.58	Α	C
ATOM	2175	CB	TYR	299	52.666	76.029	25.816	1.00 15.77	Α	С
ATOM	2176	CG	TYR	299	53.811	76.176	26.790	1.00 17.03	Α	С
ATOM	2177	CD1	TYR	299	55. 095	75. 762	26.456	1.00 14.29	Α	С
ATOM	2178	CE1	TYR	299	56.119	75.807	27.380	1.00 15.79	Α	С
ATOM	2179	CD2	TYR	299	53. 586	76.653	28.081	1.00 15.17	Α	С
ATOM	2180	CE2		299	54.600	76.700	29.009	1.00 15.67	Α	С
ATOM	2181	CZ	TYR	299	55.865	76. 270	28.656	1.00 15.90	Α	C
ATOM	2182	0H	TYR	299	56. 863	76. 261	29.595	1.00 16.73	Α	0
ATOM	2183	C	TYR	299	51.351	76. 741	23.893	1.00 17.76	Α	C
ATOM	2184	0	TYR	299	50. 349	77.411	24. 178	1.00 16.87	Α	0
ATOM	2185	N	LEU	300	51.355	75. 799	22.959	1.00 16.20	Α	N
ATOM	2186	CA	LEU	300	50. 130	75.413	22. 292	1.00 16.36	Α	C
ATOM	2187	CB	LEU	300	50.413	74.923	20.878	1.00 16.40	Α	C
ATOM	2188	CG	LEU	300	49. 232	74. 296	20.139	1.00 14.78	Α	C
ATOM	2189	CD1		300	48. 131	75. 322	19.972	1.00 16.55	Α	C
ATOM	2190		LEU	300	49. 692	73. 789	18. 785	1.00 15.08	A	C
ATOM	2191	C	LEU	300	49.777	74. 243	23. 205	1.00 17.58	A	C
ATOM	2192	0	LEU	300	50. 568	73. 312	23. 335	1.00 17.21	A	0
ATOM	2193	N	CYS	301	48. 629	74. 290	23.873	1.00 19.46	A	N
ATOM	2194	CA	CYS	301	48. 288	73. 202	24. 782	1.00 22.20	A	C
ATOM	2195	CB	CYS	301	48. 208	73. 722	26. 220	1.00 22.63	A	C
ATOM	2196	SG	CYS	301	46.943	74. 962	26. 503	1.00 26.56	A	S
ATOM	2197	C	CYS	301	47. 032	72. 399	24. 468	1.00 23.29	A	C
ATOM	2198	0 N	CYS	301	46. 690	71.481	25. 210	1.00 25.66	A	0
ATOM	2199	N CA	ASP	302	46.341	72. 731	23. 386	1.00 23.55	A	N
ATOM	2200	CA	ASP	302	45. 148	71.976	23.015	1.00 24.19	A	C
ATOM	2201 2202	CB CG	ASP ASP	302 302	43. 999	72. 223 71. 355	23.991	1.00 26.49	A	C
ATOM ATOM	2202	0D1		302 302	42. 789 42. 795	71. 355 70. 170	23. 680 24. 066	1.00 28.68 1.00 30.65	A	C
ATOM	2203	0D1		302 302	42. 793	71.844	23.029	1.00 30.05	A A	0 0
UT OIAT	4404	000	INI	004	41.041	11.044	40.043	1.00 00.01	n	U

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					F 1	G. 4	- 4 6				
ATOM	2205	С	ASP	302	44.658	72. 292	21.610	1.00 23.22	Α	С	
ATOM	2206	ŏ	ASP	302	44. 523	73. 455	21. 226	1.00 24.26	Α	0	
ATOM	2207	Ň	VAL	303	44. 385	71. 237	20.857	1.00 21.65	Α	N	
ATOM	2208	CA	VAL	303	43. 902	71.349	19.493	1.00 20.79	Α	С	
ATOM	2209		VAL	303	44. 926	70.803	18.480	1.00 21.88	Α	С	
ATOM	2210		VAL	303	44. 420	71.028	17.051	1.00 20.34	A	С	
ATOM	2211	CG2		303	46. 273	71.465	18. 702	1.00 20.12	Α	С	
ATOM	2212	C	VAL	303	42.657	70. 494	19.417	1.00 20.38	A	С	
ATOM	2213	ŏ	VAL	303	42.687	69. 306	19.744	1.00 19.45	Α	0	
ATOM	2214	Ň	THR	304	41.562	71.102	18.982	1.00 20.04	Α	N	
ATOM	2215	CA	THR	304	40. 302	70. 394	18.882	1.00 19.30	Α	С	
ATOM	2216	CB	THR	304	39. 494	70.546	20. 191	1.00 19.73	Α	С	
ATOM	2217		THR	304	40. 256	70.024	21.287	1.00 20.19	Α	0	
ATOM	2218	CG2		304	38. 168	69.812	20.090	1.00 17.51	Α	С	
ATOM	2219	C	THR	304	39. 467	70.930	17.733	1.00 18.56	Α	С	
ATOM	2220	Ŏ	THR	304	39. 185	72.127	17.674	1.00 19.32	Α	0	
ATOM	2221	Ň	TRP	305	39.082	70.042	16.819	1.00 18.08	Α	N	
ATOM	2222	CA	TRP	305	38. 243	70.422	15.681	1.00 16.88	Α	С	
ATOM	2223	CB	TRP	305	38. 332	69.394	14.546	1.00 13.92	Α	C	
ATOM	2224	CG	TRP	305	39. 581	69.464	13.745	1.00 13.82	Α	С	
ATOM	2225	CD2		305	39.815	70.296	12.606	1.00 13.04	Α	С	
ATOM	2226	CE2		305	41.143	70.068	12.189	1.00 13.12	A	С	
ATOM	2227	CE3		305	39. 031	71.216	11.899	1.00 13.55	Α	С	
ATOM	2228	CD1		305	40.745	68.781	13.967	1.00 13.51	Α	С	
ATOM	2229		TRP	305	41.688	69.138	13.036	1.00 11.41	Α	N	
ATOM	2230	CZ2		305	41.704	70.729	11.094	1.00 12.03	A	C	
ATOM	2231	CZ3		305	39. 591	71.873	10.809	1.00 14.16	Α	C	
ATOM	2232	CH2		305	40.914	71.625	10.419	1.00 13.92	Α	C	
ATOM	2233	C	TRP	305	36.803	70.477	16. 155	1.00 16.35	Α	C	
ATOM	2234	0	TRP	305	36.368	69.613	16.917	1.00 16.55	Α	0	
ATOM	2235	N	ALA	306	36.064	71.484	15.704	1.00 16.10	Α	N	
ATOM	2236	CA	ALA	306	34.661	71.620	16.079	1.00 17.20	Α	С	
ATOM	2237	CB	ALA	306	34.336	73.074	16.384	1.00 18.47	Α	С	
ATOM	2238	C	ALA	306	33.770	71.110	14.956	1.00 16.79	Α	С	
ATOM	2239	0	ALA	306	32.829	70.369	15. 191	1.00 18.46	Α	0	
ATOM	2240	N	THR	307	34.076	71.516	13.733	1.00 18.36	Α	N	
ATOM	2241	CA	THR	307	33. 314	71.100	12.564	1.00 18.83	Α	С	
ATOM	2242	CB	THR	307	32.387	72.222	12.072	1.00 18.43	Α	C	
ATOM	2243	0G1	THR	307	33. 178	73.254	11.473	1.00 20.76	Α	0	
ATOM	2244	CG2	THR	307	31.593	72.811	13. 225	1.00 16.72	Α	С	
ATOM	2245	C	THR	307	34.299	70. 778	11.442	1.00 20.34	Α	С	
ATOM	2246	0	THR	307	35. 494	70.626	11.689	1.00 22.05	A	0	
ATOM	2247	N	GLN	308	33. 798	70.688	10. 213	1.00 20.11	A	N	
ATOM	2248	CA	GLN	308	34.640	70. 389	9.066	1.00 19.71	A	C C	
ATOM	2249	CB	GLN	308	33. 799	69. 942	7.866	1.00 19.44	A	C	
ATOM	2250	CG	GLN	308	32. 845	68. 791	8. 118	1.00 21.53	A	C	
ATOM	2251	CD	GLN	308	33. 524	67. 505	8. 557	1.00 23.81	A	C	
ATOM	2252	0E1		308	32. 854	66. 565	9.003	1.00 25.80	A	0	
ATOM	2253	NE2	GLN	308	34. 848	67. 449	8. 430	1.00 21.04	Α	N	

		FIG. 4-47	(Continued)
ATOM 2273 NH2 ATOM 2274 C ATOM 2275 O ATOM 2276 N ATOM 2277 CA ATOM 2278 CB ATOM 2279 CG2 ATOM 2280 CG1 ATOM 2281 CD1 ATOM 2282 C ATOM 2283 O ATOM 2284 N ATOM 2285 CA ATOM 2286 CB ATOM 2287 OG	GLU 309 GLU 309 GLU 309 ARG 310 ILE 311 ILE 311 ILE 311	35. 440 71. 616 8. 653 1. 00 19. 98 36. 421 71. 501 7. 922 1. 00 21. 84 35. 022 72. 789 9. 114 1. 00 19. 41 35. 710 74. 019 8. 751 1. 00 20. 93 34. 920 74. 764 7. 685 1. 00 21. 98 34. 709 73. 971 6. 419 1. 00 26. 38 33. 890 74. 731 5. 413 1. 00 29. 11 33. 665 74. 192 4. 305 1. 00 31. 98 33. 471 75. 869 5. 736 1. 00 28. 78 35. 924 74. 939 9. 932 1. 00 21. 37 36. 075 76. 152 9. 764 1. 00 21. 97 35. 941 74. 360 11. 125 1. 00 20. 65 36. 133 75. 131 12. 340 1. 00 20. 50 34. 779 75. 445 12. 986 1. 00 19. 87 34. 888 76. 186 14. 305 1. 00 22. 38 33. 519 76. 630 14. 786 1. 00 22. 38 33. 519 76. 630 14. 786 1. 00 21. 66 32. 952 77. 605 13. 870 1. 00 20. 43 31. 660 77. 884 13. 785 1. 00 19. 88 30. 794 77. 261 14. 569 1. 00 21. 42 31. 235 78. 776 12. 902 1. 00 21. 69 37. 009 74. 346 13. 304 1. 00 19. 05 36. 701 73. 214 13. 671 1. 00 20. 19 38. 108 74. 959 13. 710 1. 00 17. 88 39. 044 74. 320 14. 619 1. 00 17. 41 40. 371 73. 991 13. 859 1. 00 17. 28 40. 982 75. 252 13. 305 1. 00 17. 28 40. 982 75. 252 13. 305 1. 00 17. 28 40. 982 75. 252 13. 305 1. 00 17. 79 42. 589 72. 763 14. 011 1. 00 15. 43 39. 283 75. 258 15. 802 1. 00 17. 06 39. 461 74. 692 16. 988 1. 00 16. 94 39. 694 75. 517 18. 163 1. 00 18. 32 38. 631 75. 244 19. 235 1. 00 19. 09 39. 008 74. 173 20. 074 1. 00 18. 57	A C C C C C C C C C C C C C C C C C C C
ATOM 2289 O ATOM 2290 N ATOM 2291 CA	SER 312 SER 312 LEU 313 LEU 313 LEU 313	41. 084       75. 269       18. 736       1. 00       18. 45       A         41. 552       74. 131       18. 795       1. 00       17. 71       A         41. 738       76. 349       19. 148       1. 00       19. 07       A         43. 080       76. 271       19. 708       1. 00       20. 08       A         44. 093       76. 931       18. 768       1. 00       19. 12       A	O N C
ATOM 2293 CG ATOM 2294 CD1 ATOM 2295 CD2 ATOM 2296 C ATOM 2297 O ATOM 2298 N ATOM 2299 CA ATOM 2300 CB ATOM 2301 CG	LEU 313 LEU 313	44. 239       76. 409       17. 341       1. 00       20. 02       A         45. 480       77. 038       16. 712       1. 00       19. 82       A         44. 361       74. 892       17. 351       1. 00       20. 74       A         43. 172       76. 957       21. 062       1. 00       21. 08       A         42. 608       78. 030       21. 265       1. 00       21. 22       A         43. 898       76. 333       21. 981       1. 00       22. 23       A         44. 096       76. 884       23. 308       1. 00       22. 40       A         43. 545       75. 935       24. 365       1. 00       24. 62       A         42. 033       75. 860       24. 406       1. 00       27. 30       A         41. 536       74. 832       25. 401       1. 00       29. 52       A	C C C O N C C

										(Continued)
					FI	G. 4	- 48			
ATOM ATOM	2303 2304	NE2	GLN GLN	314 314	41.827 40.786	73.854	26. 598 24. 911	1.00 29.38 1.00 30.52	A A	O N
ATOM	2305	C	GLN	314	45. 584		23. 532	1.00 22.00	A	C
ATOM ATOM	2306 2307	0 N	GLN TRP	314 315	46. 382 45. 954		23. 419 23. 833	1.00 22.34 1.00 21.50	A A	O N
ATOM	2308	CA	TRP	315	47. 343	78. 667	24. 070	1.00 20.70	A	C
ATOM	2309	CB	TRP	315	47. 748	79.873	23. 226	1.00 18.74	Ä	č
ATOM	2310	CG	TRP	315	47.480	79.711	21.746	1.00 17.87	Α	C
ATOM	2311		TRP	315	48. 435	79. 368	20. 733	1.00 14.81	A	Ċ
ATOM	2312		TRP	315	47. 764	79.419	19. 491	1.00 14.29	A	C C
ATOM ATOM	2313 2314	CE3		315 315	49. 793 46. 299	79. 029 79. 936	20. 753 21. 095	1.00 13.32 1.00 15.84	A	C
ATOM	2315		TRP	315	46. 463	79. 769	19. 742	1.00 13.84	A A	N N
ATOM	2316		TRP	315	48. 407	79. 147	18. 278	1.00 12.51	A	Č
ATOM	2317		TRP	315	50.433	78.760	19. 545	1.00 13.87	A	Č
ATOM	2318		TRP	315	49. 736	78.822	18. 325	1.00 12.57	Ä	C
ATOM	2319	C	TRP	315	47. 530	78. 976	25. 545	1.00 21.60	A	C
ATOM ATOM	2320	0 N	TRP	315	46.615	79.463	26. 205	1.00 22.41	A	0
ATOM	$\begin{array}{c} 2321 \\ 2322 \end{array}$	N CA	LEU LEU	316 316	48. 721 49. 033	78. 689 78. 915	26. 056 27. 458	1.00 21.81 1.00 22.64	A	N
ATOM	2323	CB	LEU	316	49.034	77. 573	28. 192	1.00 22.04	A A	C C
ATOM	2324	CG	LEU	316	49. 655	77. 484	29. 584	1.00 23.04	A	č
ATOM	2325		LEU	316	48.953	78. 438	30. 530	1.00 24.08	Ä	č
ATOM	2326		LEU	316	49.557	76.049	30.085	1.00 19.71	A	Ċ
ATOM	2327	C	LEU	316	50. 383	79.617	27.618	1.00 24.44	Α	C
ATOM	2328	0	LEU	316	51.392	79. 192	27. 046	1.00 26.77	Ą	0
ATOM ATOM	2329 2330	N CA	ARG ARG	317 317	50. 388 51. 603	80. 704	28. 383	1.00 23.92	A	N
ATOM	2331	CB	ARG	317	51. 265	81.475 82.787	28. 630 29. 337	1.00 22.55 1.00 25.72	A A	C C
ATOM	2332	CG	ARG	317	50. 490	83. 785	28. 504	1.00 25.72	A	C
ATOM	2333	CD	ARG	317	50. 187	85. 012	29. 327	1.00 26.99	A	Č
ATOM	2334	NE	ARG	317	49.796	86.141	28. 494	1.00 30.37	Ä	N
ATOM	2335	CZ	ARG	317	49. 278	87. 269	28.966	1.00 30.55	Α	С
ATOM	2336		ARG	317	49. 082	87.414	30. 273	1.00 29.99	A	N
ATOM	2337		ARG	317	48. 972	88. 256	28. 132	1.00 28.53	A	N
ATOM ATOM	2338 2339	C 0	ARG ARG	317 317	52. 580 52. 175	80. 705 79. 920	29. 500	1.00 21.07	A	C
ATOM	2340	N	ARG	318	53. 871	80. 941	30. 359 29. 290	1.00 19.79 1.00 19.43	· A A	0 N
ATOM	2341	CA	ARG	318	54. 876	80. 259	30.084	1.00 13.43	A	N C
ATOM	2342	CB	ARG	318	56. 263	80.850	29. 845	1.00 15.15	A	č
ATOM	2343	CG	ARG	318	57. 345	80.075	30.564	1.00 13.58	Ä	č
ATOM	2344	CD	ARG	318	58. 671	80. 165	29.853	1.00 13.59	Α	C
ATOM	2345	NE	ARG	318	59. 687	79. 341	30. 504	1.00 11.13	A	Ŋ
ATOM	2346	CZ	ARG	318	60. 895	79. 135	30.001	1.00 10.46	A	Ç
ATOM ATOM	$\begin{array}{c} 2347 \\ 2348 \end{array}$		ARG ARG	318 318	61. 220 61. 773	79. 694 78. 378	28. 850 30. 642	1.00 11.29 1.00 10.86	Α	N N
ATOM	2349	C	ARG	318	54. 500	80. 354	30. 642	1.00 10.86	A A	N C
ATOM	2350	ŏ	ARG	318	54. 794	79. 448	32. 318	1.00 20.33	A	0
ATOM	2351	N	ILE	319	53. 869	81.455	31.954	1.00 16.59	A	Ň

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										(Continued)
					FI	G. 4	- 49			•••
ATOM	2352	CA	ILE	319	53. 396	81.607	33. 330	1.00 17.40	Α	С
ATOM	2353	CB	ILE	319	53. 389	83.078	33. 776	1.00 17.03	Ā	Č
ATOM	2354		ILE	319	52.720	83. 210	35. 128	1.00 17.19	Ä	Č
ATOM	2355	CG1	ILE	319	54. 828	83. 589	33. 878	1.00 19.57	Ä	Č
ATOM	2356	CD1	ILE	319	55. 712	82.743	34. 787	1.00 19.56	Α	C
ATOM	2357	C	ILE	319	51.972	81.065	33. 251	1.00 17.56	Α	Ċ
ATOM	2358	Ŏ	ILE	319	51.012	81.808	33.067	1.00 18.71	Α	0
ATOM	2359	Ň	GLN	320	51.870	79.747	33. 381	1.00 16.94	Α	N
ATOM	2360	CA	GLN	320	50.623	79.001	33. 246	1.00 16.12	Α	С
ATOM	2361	CB	GLN	320	50.939	77.516	33.420	1.00 14.59	A	С
ATOM	2362	CG	GLN	320	52.000	77.044	32.444	1.00 12.17	Α	С
ATOM	2363	CD	GLN	320	52.304	75.577	32.570	1.00 10.79	Α	С
ATOM	2364	0E1		320	51.431	74.734	32.403	1.00 12.70	A	0
ATOM	2365		GLN	320	53. 554	75. 261	32.860	1.00 13.71	Α	N
ATOM	2366	C	GLN	320	49.368	79.351	34.038	1.00 16.32	A	С
ATOM	2367	0	GLN	320	48.645	78.466	34.472	1.00 14.51	A	0
ATOM	2368	N	ASN	321	49.079	80.633	34. 207	1.00 18.37	Α	N
ATOM	2369	CA	ASN	321	47.871	81.010	34. 931	1.00 19.38	Α	C
ATOM	2370	CB	ASN	321	48. 226	81.785	36. 203	1.00 20.21	Α	C
ATOM	2371	CG	ASN	321	48. 776	83.166	35.925	1.00 23.59	A	C
ATOM	2372	0D1	ASN	321	49.166	83. 491	34.804	1.00 22.35	A	0
ATOM	2373	ND2	ASN	321	48.801	83.975	36.980	1.00 27.82	Α	N
ATOM	2374	C	ASN	321	46.983	81.843	34.020	1.00 18.69	Α	C
ATOM	2375	0	ASN	321	46.095	82.555	34. 479	1.00 19.10	Α	0
ATOM	2376	N	TYR	322	47.222	81.715	32.719	1.00 17.65	Α	N
ATOM	2377	CA	TYR	322	46.482	82.466	31.719	1.00 18.28	Α	C
ATOM	2378	CB	TYR	322	47. 105	83. 856	31.599	1.00 18.09	Α	C
ATOM	2379	CG	TYR	322	46.319	84.856	30. 792	1.00 20.14	A	C
ATOM	2380	CD1	TYR	322	46.561	85.037	29. 428	1.00 21.33	A	C
ATOM	2381	CE1		322	45.843	85. 987	28. 694	1.00 22.14	A	C
ATOM	2382		TYR	322	45. 340	85.645	31.401	1.00 20.00	A	C
ATOM	2383		TYR	322	44.624	86. 589	30. 681	1.00 19.18	A	C
ATOM	2384	CZ	TYR	322	44.876	86. 758	29. 334	1.00 21.74	A	C
ATOM	2385	OH	TYR	322	44. 163	87. 704	28. 638	1.00 24.04	A	0
ATOM	2386	C	TYR	322	46.518	81.750	30. 363	1.00 18.70	A	C
ATOM	2387	0	TYR	322	47. 583	81.587	29. 764	1.00 18.36	A	0
ATOM	2388	N	SER	323	45. 351	81.318	29.896	1.00 17.43	A	N
ATOM	2389	CA	SER	323	45. 237	80.638	28. 612	1.00 17.45	A	C
ATOM	2390	CB	SER	323	44. 871	79. 163	28. 806	1.00 16.45	A	C
ATOM	2391	0G	SER	323	43.662	79.025	29. 535	1.00 17.51	A	0
ATOM	2392	C	SER	323	44. 163	81.320	27. 777	1.00 17.88	A	C
ATOM	2393	0 N	SER	323	43. 250	81.943	28. 314	1.00 18.20	A	0
ATOM	2394 2395	N CA	VAL VAL	$\begin{array}{c} 324 \\ 324 \end{array}$	44. 277 43. 309	81. 199 81. 802	26. 461 25. 555	1.00 18.44 1.00 18.83	A A	N C
ATOM ATOM	2395	CB	VAL	$\begin{array}{c} 324 \\ 324 \end{array}$		82. 995	23. 555	1.00 18.83	A A	C
ATOM	2397	CG1	VAL	324 324		83. 509	23. 760	1.00 19.32	A	Č
ATOM	2398		VAL	324	44. 290	84. 105	25. 785	1.00 18.78	A	Č
ATOM	2399	C	VAL	324	42. 839	80.776	24. 534	1.00 18.47	A	č
ATOM	2400	Ö	VAL	324	43. 631	79. 985	24. 036	1.00 18.75	A	ŏ
111 0111	4100	J	11111	UUT	20.001		21.000	2.00 10.10		•

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ATOM	2401	N	MET	325	41.549			1.00 17.55	A	N
ATOM	2402	CA	MET	325	41.046			1.00 17.68	Α	С
ATOM	2403	CB	MET	325	39.832	79.062	23.769	1.00 19.82	Α	С
ATOM	2404	CG	MET	325	39. 272			1.00 20.18	Α	C
ATOM	2405	SD	MET	325	37. 681			1.00 23.11	Α	S
ATOM	2406	CE	MET	325	38. 209			1.00 24.95	Α	С
ATOM	2407	C	MET	325	40.641			1.00 18.03	Α	С
ATOM	2408	0	MET	325	39. 932			1.00 16.88	A	0
ATOM	2409	N	ASP	326	41.114			1.00 18.60	A	N
ATOM	2410	CA	ASP	326	40.749			1.00 20.69	A	C
ATOM	2411	CB	ASP	326	41.988			1.00 22.43	A	C
ATOM	2412	CG	ASP	326	42. 329			1.00 26.03	A	C
ATOM	2413		ASP	326	41.511			1.00 26.48	A	0
ATOM	2414		ASP	326	43. 415			1.00 28.75	A	0
ATOM ATOM	2415	C	ASP	326	39. 924		18. 800	1.00 19.88	A	C
ATOM	2416 2417	O N	ASP ILE	$\begin{array}{c} 326 \\ 327 \end{array}$	40. 254 38. 832			1.00 21.77 1.00 20.27	A	0 N
ATOM	2417	CA	ILE	327	37. 980		17. 419	1.00 20.27	A A	N C
ATOM	2419	CB	ILE	327	36. 529		17. 941	1.00 22.22	A	C
ATOM	2420		ILE	327	35. 600		16. 985	1.00 20.00	A	Č
ATOM	2421		ILE	327	36. 483		19. 305	1.00 21.51	A	č
ATOM	2422		ILE	327	35. 164		20.006	1.00 20.97	A	č
ATOM	2423	C	ILE	327	38. 113		16.015	1.00 23.66	A	č
ATOM	2424	ŏ	ILE	327	37. 625		15. 716	1.00 26.18	Ä	ŏ
ATOM	2425	Ň	CYS	328	38. 804			1.00 26.09	Ä	Ň
ATOM	2426	CA	CYS	328	39.069		13. 805	1.00 26.75	Ä	Ċ
ATOM	2427	Ċ	CYS	328	38. 274		12.721	1.00 27.13	Ā	Č
ATOM	2428	0	CYS	328	38.168		12.705	1.00 27.70	A	0
ATOM	2429	CB	CYS	328	40.564	79.481	13.547	1.00 27.02	Α	C
ATOM	2430	SG	CYS	328	41.567	79.984	14.986	1.00 28.23	Α	S
ATOM	2431	N	ASP	329	37. 729	79.686	11.807	1.00 26.60	Α	N
ATOM	2432	CA	ASP	329	36.913	79. 198	10.710	1.00 26.21	Α	C
ATOM	2433	CB	ASP	329 -	35. 595	79.969	10.690	1.00 24.92	Α	C
ATOM	2434	CG	ASP	329	34.684	79. 595	11.842	1.00 26.75	Α	C
ATOM	2435		ASP	329	35. 181	79.407	12.969	1.00 27.44	A	0
ATOM	2436		ASP	329	33. 460		11.625	1.00 28.96	A	0
ATOM	2437	C	ASP	329	37.613		9. 367	1.00 28.54	A	C
ATOM	2438	0	ASP	329	38. 314	80. 334	9.120	1.00 29.27	A	0
ATOM	2439	N	TYR	330	37.416	78. 371	8. 492	1.00 29.31	A	N
ATOM	2440 2441	CA	TYR	330	38. 027	78. 411	7. 173	1.00 29.64	A	C
ATOM ATOM	2441	CB CG	TYR TYR	330 330	38.011	77. 019 76. 980	6.542	1.00 30.55	A	C
ATOM	2442		TYR	330	38. 597 39. 919	77. 367	5. 151 4. 919	1.00 31.78 1.00 32.26	A A	C C C
ATOM	2443		TYR	330	40. 460	77. 341	3. 641	1.00 32.20	A	C
ATOM	2445		TYR	330	37. 832		4.066	1.00 32.18	A	C
ATOM	2446		TYR	330	38. 364		2. 779	1.00 32.54	A	č
ATOM	2447	CZ	TYR	330	39.676	76. 920	2. 574	1.00 33.67	A	č
ATOM	2448	OH	TYR	330	40. 193		1. 299	1.00 34.33	A	ŏ
ATOM	2449	C	TYR	330	37. 314		6.243	1.00 30.14	A	Ċ

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					FΙ	G. 4	- 51			(Continueu)
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ATOM	2450	0	TYR	330	36.098	79. 313	6.058	1.00 28.65	Α	0
ATOM	2451	N	ASP	331	38. 074	80. 308	5.666	1.00 31.49	Α	N
ATOM	2452	CA	ASP	331	37. 511	81. 262	4.730	1.00 33.80	Α	С
ATOM	2453	CB	ASP	331	38. 191	82.618	4.862	1.00 36.63	Α	C
ATOM	2454	CG	ASP	331	37. 573	83.661	3.956	1.00 39.35	Α	C
ATOM	2455		ASP	331	37. 570	83. 455	2. 724	1.00 40.70	Α	0
ATOM	2456		ASP	331	37. 084	84.684	4. 479	1.00 42.41	Α	0
ATOM	2457	C	ASP	331	37. 750	80. 696	3. 336	1.00 35.29	Α	C
ATOM	2458	0	ASP	331	38. 865	80. 730	2.817	1.00 35.63	Α	0
ATOM	2459	N	GLU	332	36.690	80.170	2. 743	1.00 36.11	Α	N
ATOM.	2460	CA	GLU	332	36.755	79. 562	1.426	1.00 37.77	A	C
ATOM	2461	CB	GLU	332	35. 388	78.970	1.080	1.00 38.87	Α	C
ATOM	2462	CG	GLU	332	35. 234	78.510	-0.354	1.00 43.60	A	C
ATOM	2463	CD	GLU	332	33. 869	77. 897	-0.620	1.00 47.15	A	C
ATOM	2464	0E1	GLU	332	33. 494	77. 771	-1.807	1.00 48.97	A	0
ATOM	2465	0E2		332	33. 175	77. 534	0.358	1.00 48.40	A	0
MOTA	2466	C	GLU	332	37. 231	80.465	0. 293	1.00 38.19	A	C
ATOM	2467	0	GLU	332	37. 846	79. 982	-0.655	1.00 39.73	A	0
ATOM	2468	N	SER	333	36. 968	81.764	0. 375	1.00 37.67	A	N
ATOM	2469	CA	SER	333	37. 388	82.652	-0.704	1.00 38.09	A	C
ATOM	2470	CB	SER	333	36. 445	83. 858	-0.814	1.00 38.48	A	<u>C</u> .
ATOM	2471	0G	SER	333	36.669	84. 795	0. 223	1.00 40.60	A	0
ATOM	2472	C	SER	333	38. 826	83.135	-0.577	1.00 37.74	A	C
ATOM	2473	0	SER	333	39. 324	83. 838	-1.448	1.00 38.52	A	0
ATOM	2474	N	SER	334	39. 496	82.761	0.506	1.00 38.49	A	N
ATOM	2475	CA	SER	334	40. 883	83. 163	0.708	1.00 37.49	A	C
ATOM	2476	CB	SER	334	40. 995	84. 180	1.844	1.00 38.50	A	C
ATOM	2477	OG C	SER	334	40. 954	83. 536	3. 108	1.00 38.48	A	0
ATOM	2478	C	SER	334	41.722	81.947	1.058	1.00 35.98	A	C
ATOM ATOM	2479 2480	O N	SER GLY	334 335	42. 941	82.029	1.148	1.00 36.41	A	0 N
ATOM	2481	CA	GLY	335	41.064 41.797	80.817 79.620	1.263	1.00 35.13	A	N C
ATOM	2482	C	GLY	335	42. 579	79. 872	1.620 2.894	1. 00 35. 71 1. 00 35. 19	A	C C
ATOM	2483	Õ	GLY	335	43. 574	79. 201	3. 172	1.00 35.19	A	0
ATOM	2484	N	ARG	336	42. 128	80. 855	3.666	1.00 33.01	A	
ATOM	2485	CA	ARG	336	42. 783	81.197	4.919	1.00 33.35	A A	N C
ATOM	2486	CB	ARG	336	43. 066	82.696	4. 991	1.00 36.78	A	C
ATOM	2487	CG	ARG	336	43. 957	83. 232	3. 884	1.00 30.78	A	C C
ATOM	2488	CD	ARG	336	44. 807	84. 374	4.416	1.00 45.76	A	C
ATOM	2489	NE	ARG	336	44. 010	85. 359	5. 147	1.00 48.92	A	N N
ATOM	2490	CZ	ARG	336	44. 510	86. 192	6.055	1.00 50.76	A	Č
ATOM	2491	NH1	ARG	336	45. 805	86.159	6. 348	1.00 52.08	A	N
ATOM	2492		ARG	336	43. 718	87. 057	6.675	1. 00 52. 33	A	N
ATOM	2493	C	ARG	336	41.935	80. 801	6.118	1. 00 30. 26	Ä	Č
ATOM	2494	Ō	ARG	336	40. 763	80. 449	5. 981	1.00 29.07	Ä	ŏ
ATOM	2495	N	TRP	337	42.544	80.869	7. 294	1. 00 26. 94	A	N
ATOM	2496	CA	TRP	337	41.869	80. 531	8. 533	1. 00 24. 29	A	Ċ
ATOM	2497	CB	TRP	337	42.616	79.403	9. 248	1.00 19.88	Ä	Č
ATOM	2498	CG	TRP	337	42.460	78.074	8. <u>561</u>	1.00 15.10	Α	C

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					FΙ	G. 4	- 52			(Continued)
		an a		205				1 00 0 00		0
ATOM	2499		TRP	337	41.481	77. 077	8.861	1.00 9.80	A	C
ATOM	2500		TRP	337	41.651	76.026	7. 927	1.00 9.92	A	C
ATOM	2501	CE3		337	40. 475	76.970	9. 825	1.00 7.74	A	C
ATOM	2502	CD1	TRP	337	43. 173	77.601	7. 485	1.00 12.90	A	C
ATOM	2503		TRP	337	42.688	76.369	7. 099	1.00 9.82	A	N
ATOM	2504		TRP	337	40.849	74. 885	7. 935	1.00 9.71	A	C
ATOM	2505		TRP	337	39.675	75.836	9.832	1.00 7.79	A	C·
ATOM	2506	CH2		337	39.866	74.808	8.894	1.00 10.33	A	C
ATOM	2507	C	TRP	337	41. 783	81.758	9. 425	1.00 24.55	A	C
ATOM	2508	0	TRP	337	42.794	82.360	9.766	1.00 26.73	A	0
ATOM	2509	N	ASN	338	40. 570	82.128	9.806	1.00 25.00	A	N
ATOM	2510	CA	ASN	338	40.381	83. 296	10.648	1.00 26.17	Α	C
ATOM	2511	CB	ASN	338	39.464	84.300	9.949	1.00 28.44	Α	C
ATOM	2512	CG	ASN	338	40.016	84.761	8.612	1.00 30.42	Α	C
ATOM	2513		ASN	338	39.320	84. 711	7. 596	1.00 32.04	Α	0
ATOM	2514	ND2	ASN	338	41.271	85. 217	8.606	1.00 28.33	Α	N
ATOM	2515	C	ASN	338	39.810	82.958	12.012	1.00 25.29	Α	C
ATOM	2516	0	ASN	338	38.957	82.084	12.148	1.00 25.29	Α	0
ATOM	2517	N	CYS	339	40. 293	83.668	13.023	1.00 25.00	Α	N
ATOM	2518	CA	CYS	339	39.833	83.482	14.389	1.00 24.73	Α	C
ATOM	2519	C	CYS	339	39. 289	84.829	14.888	1.00 22.42	Α	C
ATOM	2520	0	CYS	339	40.051	85.717	15.249	1.00 21.56	Α	0
ATOM	2521	CB	CYS	339	40.992	83.014	15.285	1.00 25.93	Α	C
ATOM	2522	SG	CYS	339	42.199	81.865	14.526	1.00 29.61	Α	S
ATOM	2523	N	LEU	340	37.968	84.978	14.889	1.00 22.38	Α	N
ATOM	2524	CA	LEU	340	37. 333	86.212	15.347	1.00 20.83	Α	C
ATOM	2525	CB	LEU	340	35.839	86.185	15.069	1.00 19.89	Α	Č
ATOM	2526	CG	LEU	340	35.364	86. 201	13.626	1.00 19.14	Ā	Ċ
ATOM	2527		LEU	340	33.877	85.883	13.593	1.00 19.65	Α	Ċ
ATOM	2528		LEU	340	35.647	87. 551	13.012	1.00 19.21	Ā	Č
ATOM	2529	C	LEU	340	37. 521	86.406	16.835	1.00 20.16	A	Č
ATOM	2530	Ö	LEU	340	37. 337	85. 478	17.615	1.00 20.80	A	Ö
ATOM	2531	Ň	VAL	341	37.866		17. 225	1.00 20.46	A	Ň
ATOM	2532	CA	VAL	341	38.066	87. 949	18.627	1.00 20.11	Ä	Ċ
ATOM	2533	CB	VAL	341	38. 536	89. 399	18. 786	1.00 21.45	A	č
ATOM	2534		VAL	341	38. 972	89. 647	20. 221	1.00 22.38	A	č
ATOM	2535		VAL	341	39.688	89. 672	17.819	1.00 24.28	A	č
ATOM	2536	C	VAL	341	36.770	87. 749	19. 403	1.00 18.51	Ä	č
ATOM	2537	ŏ	VAL	341	36. 785	87. 423	20. 585	1.00 17.77	Ä	ŏ
ATOM	2538	Ň	ALA	342	35.644	87. 941	18. 731	1.00 19.68	Ä	Ň
ATOM	2539		ALA	342	34. 345	87. 756	19. 370	1.00 19.64	Ä	Ċ
ATOM	2540	CB	ALA	342	33. 228	88. 125	18. 407	1.00 18.89	A	č
ATOM	2541	CD	ALA	342	34. 177		19.829	1.00 19.19	A	Č
ATOM	2542	ŏ	ALA	342	33. 245	85. 987	20. 580	1.00 18.13	A	0
ATOM	2543	N	ARG	343	35. 243	85. 422	19.384	1.00 16.12	A	N N
ATOM	2544	CA	ARG	343	35.008		19. 766	1.00 16.00	A	C
ATOM	2545	CB	ARG	343	34.962	83. 138	18. 521	1.00 10.37	A	C
ATOM	2546	CG	ARG	343	33. 726		17. 687	1.00 20.31	A	Č
ATOM	2547	CD	ARG	343	33. 803	82. 695	16. 357	1.00 20.31	A	Č
111 Out	2011	UL		0.10	00.000	02.000	10.001	1.00 21.02	11	J

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					FΙ	G. 4	- 53				
ATOM	2548	NE	ARG	343	32. 615	82. 969	15. 561	1.00 23.94	Α	N	***
ATOM	2549	CZ	ARG	343	32. 373		14. 383	1.00 26.14	Α	С	
ATOM	2550	NH1	ARG	343	33. 242		13.864	1.00 28.42	Α	N	
ATOM	2551	NH2	ARG	343	31.256		13.734	1.00 30.23	Α	N	
ATOM	2552	C	ARG	343	36. 164		20.650	1.00 17.09	Α	С	
ATOM	2553	0	ARG	343	36. 275	82. 452	21.057	1.00 16.76	Α	0	
ATOM	2554	N	GLN	344	37. 030		20. 955	1.00 18.05	Α	N	
ATOM	2555	CA	GLN	344	38. 175	84. 267	21.791	1.00 18.90	Α	C	
ATOM	2556	CB	GLN	344	39. 191	85. 385	21.645	1.00 18.03	Α	C	
ATOM	2557	CG	GLN	344	40. 585		22.038	1.00 17.99	Α	C	
ATOM	2558	CD	GLN	344	41.571	86.088	21.657	1.00 18.02	Α	С	
ATOM	2559	0E1	GLN	344	41.711	87. 089	22.353	1.00 17.71	Α	0	
ATOM	2560	NE2	GLN	344	42. 246	85. 897	20. 527	1.00 17.42	Α	N	
ATOM	2561	C	GLN	344	37. 708	84.170	23. 234	1.00 19.61	Α	С	
ATOM	2562	0	GLN	344	37.069	85.087	23.730	1.00 21.89	Α	0	
ATOM	2563	N	HIS	345	38.013	83.057	23.897	1.00 18.47	Α	N	
ATOM	2564	CA	HIS	345	37. 624	82.868	25. 287	1.00 17.92	Α	С	
ATOM	2565	CB	HIS	345	36. 786	81.600	25. 453	1.00 16.07	Α	С	
ATOM	2566	CG	HIS	345	35. 478	81.641	24.726	1.00 15.01	Α	С	
ATOM	2567		HIS	345	34. 223	81.895	25. 164	1.00 14.43	Α	С	
ATOM	2568		HIS	345	35. 371	81.420	23.369	1.00 15.56	Α	N	
ATOM	2569		HIS	345	34. 108	81. 535	23.002	1.00 12.57	Α	C	
ATOM	2570		HIS	345	33. 390	81.823	24.073	1.00 14.20	Α	N	
ATOM	2571	C	HIS	345	38. 854	82. 789	26. 172	1.00 19.64	Α	С	
ATOM	2572	0	HIS	345	39. 839	82. 129	25.825	1.00 22.18	Α	0	
ATOM	2573	N	ILE	346	38. 790	83.460	27. 319	1.00 20.11	Α	N	
ATOM	2574	CA	ILE	346	39. 899	83. 501	28. 264	1.00 21.08	Α	C	
ATOM	2575	CB	ILE	346	40. 135	84.928	28.760	1.00 20.44	Α	С	
ATOM	2576		ILE	346	41.357	84. 972	29.667	1.00 20.95	Α	C	
ATOM	2577		ILE	346	40. 338	85.860	27. 572	1.00 19.87	Α	C	
ATOM	2578		ILE	346	40.466	87. 298	27. 978	1.00 22.20	Α	С	
ATOM	2579	C	ILE	346	39.657	82.624	29. 482	1.00 23.76	Α	C	
ATOM	2580	0	ILE	346	38. 535	82.537	29. 975	1.00 24.67	Α	0	
ATOM	2581	N	GLU	347	40. 714	81.976	29. 967	1.00 25.01	A	N	
ATOM	2582	CA	GLU	347	40.601	81.123	31. 141	1.00 28.30	A	C	
ATOM	2583	CB	GLU	347	40.459	79.656	30. 733	1.00 26.51	A	C	
ATOM	2584	CG	GLU	347	40.089	78. 740	31.891	1.00 27.38	A	C	
ATOM	2585	CD	GLU	347	40.169	77. 268	31.527	1.00 29.51	A	C	
ATOM	2586	0E1	GLU	347	39.877	76.936	30. 359	1.00 29.48	A	0	
ATOM	2587		GLU	347	40.511	76.439	32. 405	1.00 29.57	A	0	
ATOM	2588	C	GLU	347	41.836	81.288	32. 021	1.00 30.87	A	Ç	
ATOM	2589	0 N	GLU	347	42.865	80.661	31.777	1.00 33.35	A	0	
ATOM	2590 2501	N Ca	MET	348	41.741	82.131	33. 044	1.00 32.50	A	N	
ATOM	2591 2592	CA	MET	348	42.877	82.347	33. 926	1.00 34.46	A	C	
ATOM	2593	CB CG	MET MET	348	43. 215	83.843	34.002	1.00 37.48	A	C	
ATOM ATOM	2594	SD	MET	348 348	42.168	84. 723	34.661	1.00 41.62	A	C	
ATOM	2595	CE	MET	348	42. 028 43. 541	86.340 87.158	33. 825 34. 341	1.00 48.03	A	S	
ATOM	2596	CE	MET	348 348	43. 541	81.784	35. 315	1.00 46.60 1.00 33.55	A	C	
mon	7020	J	mL I	UTU	74.040	01.104	00.010	1.00 00.00	Α	U	

										(Contin	nued)
FIG. 4-54											
ATOM	2597	0	MET	348	41.656	81.070	35. 541	1.00 34.35	Α	0	
ATOM	2598	Ň	SER	349	43. 534	82.085	36. 235	1.00 32.30	Α	N	
ATOM	2599	CA	SER	349	43. 428	81.623	37.612	1.00 31.26	Α	C	
ATOM	2600	CB	SER	349	43.961	80.197	37.744	1.00 31.22	Α	C	
ATOM	2601	0G	SER	349	43.912	79.760	39.090	1.00 32.92	Α	0	
ATOM	2602	Č	SER	349	44. 244	82.573	38.474	1.00 31.16	Α	C	
ATOM	2603	Õ	SER	349	45. 355	82.950	38.113	1.00 31.25	Α	0	
ATOM	2604	Ň	THR	350	43.682	82.962	39.611	1.00 30.83	Α	N	
ATOM	2605	CA	THR	350	44. 340	83.896	40.516	1.00 28.43	Α	C	
ATOM	2606	CB	THR	350	43. 325	84.938	41.027	1.00 28.93	Α	C	
ATOM	2607	0G1	THR	350	42. 251	84. 268	41.703	1.00 27.68	Α	0	
ATOM	2608	CG2		350	42.751	85.733	39.864	1.00 27.87	Α	C	
ATOM	2609	C	THR	350	44. 971	83. 198	41.714	1.00 27.14	Α	C	
ATOM	2610	0	THR	350	45. 781	83. 786	42.431	1.00 27.62	Α	0	
ATOM	2611	N	THR	351	44.610	81.936	41.913	1.00 25.72	Α	N	
ATOM	2612	CA	THR	351	45. 109	81.161	43.035	1.00 24.77	Α	C	
ATOM	2613	CB	THR	351	43. 945	80.536	43.786	1.00 25.52	Α	C	
ATOM	2614	0G1	THR	351	43. 166	79.746	42.877	1.00 24.95	Α	0	
ATOM	2615	CG2	THR	351	43.069	81.617	44. 385	1.00 24.61	Α	C	
ATOM	2616	C	THR	351	46.081	80.047	42.659	1.00 25.48	Α	C	
ATOM	2617	0	THR	351	46.648	79.392	43. 535	1.00 25.57	Α	0	
ATOM	2618	N	GLY	352	46. 261	79.825	41.361	1.00 25.19	Α	N	
ATOM	2619	CA	GLY	352	47. 170	78. 786	40. 909	1.00 24.62	A	C	
ATOM	2620	C	GLY	352	47. 371	78. 797	39. 403	1.00 24.61	A	C	
ATOM	2621	0	GLY	352	47. 417	79.853	38. 774	1.00 25.15	A	0	
ATOM	2622	N	TRP	353	47. 499	77.612	38. 825	1.00 23.36	A	N	
ATOM	2623	CA	TRP	353	47. 684	77. 470	37. 390	1.00 21.38	A	C	
ATOM	2624	CB	TRP	353	48.631	76. 291	37. 116	1.00 17.49	A	C	
ATOM	2625	CG	TRP	353	48. 272	75.023	37.849	1.00 16.34	A	C C C C	
ATOM	2626		TRP	353	48. 587	74. 693	39. 209	1.00 14.04	A	C	
ATOM	2627		TRP	353	48.053		39. 462	1.00 14.33	A	C	
ATOM	2628		TRP	353	49. 270		40. 238	1.00 14.55	A		
ATOM	2629		TRP	353	47.578		37. 351	1.00 14.89	A	C	
ATOM	2630		TRP	353	47. 445		38. 311	1.00 12.84	A	N	
ATOM	2631		TRP	353	48. 180		40.709	1.00 14.93	A	C	
ATOM	2632		TRP	353	49. 398		41.480	1.00 15.27	A	C C C	
ATOM	2633		TRP	353	48. 853		41.700	1.00 15.07	A	C	
ATOM	2634	C	TRP	353	46. 303		36. 782	1.00 22.43	A		
ATOM	2635	0	TRP	353	45. 307		37. 495	1.00 22.69	A	0	
ATOM	2636	N	VAL	354	46. 231	76.990	35. 479	1.00 22.83	A	N	
ATOM	2637	CA	VAL	354	44. 944		34. 836	1.00 24.15	A	C	
ATOM	2638	CB	VAL	354	44. 818		33. 498	1.00 25.09	A	C	
ATOM	2639		VAL	354	43.610		32. 718	1.00 24.29	A	C	
ATOM	2640		VAL	354	44. 673		33. 762	1.00 24.71	A	C	
ATOM	2641	Ç	VAL	354	44. 799		34. 569	1.00 24.96	A	C	
ATOM	2642	0	VAL	354	45. 751		34. 127	1.00 26.10	A	O N	
ATOM	2643	N	GLY	355	43. 609		34. 841	1.00 24.28 1.00 22.67	A A	C	
ATOM	2644	CA	GLY	355	43. 354		34. 640	1.00 22.07	A	C	
ATOM	2645	C	GLY	355	44. 040	72.457	35.696	1.00 44.11	А	C	

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										(Continued)
					FIC	3. 4	- 55			(COIIIIIII
		_	OT 17	0.55	44 7740	70 000	0C E40	1 00 99 56	٨	0
ATOM	2646	0	GLY	355		72. 989	36. 548	1.00 22.56	A	0
ATOM	2647	N	ARG	356		71.145	35.668	1.00 23.29	A	N
ATOM	2648	CA	ARG	356		70. 299	36.654	1.00 24.86	A	C
ATOM	2649	CB	ARG	356		68. 886	36.645	1.00 24.91	A	C
ATOM	2650	CG	ARG	356		68. 808	37. 122	1.00 27.84	A	C
ATOM	2651	CD	ARG	356		67. 391	37. 036	1.00 31.58	A	C
ATOM	2652	NE	ARG	356		67. 340	37. 149	1.00 35.53	A	N
ATOM	2653	CZ	ARG	356		67. 607	38. 261	1.00 37.59	A	C
ATOM	2654		ARG	356		67. 939	39. 362	1.00 40.39	A	N
ATOM	2655		ARG	356		67. 547	38. 272	1.00 37.65	A	N
ATOM	2656	C	ARG	356		70. 255	36. 314	1.00 25.60	A	C
ATOM	2657	0	ARG	356		70. 508	37. 163	1.00 28.06	A	0
ATOM	2658	N	PHE	357		69. 940	35.060	1.00 23.61	A	N
ATOM	2659	CA	PHE	357		69.876	34. 587	1.00 21.95	A	C
ATOM	2660	CB	PHE	357		68. 442	34. 205	1.00 15.99	A	C
ATOM	2661	CG	PHE	357		67. 524	35. 380	1.00 12.89	A	C
ATOM	2662		PHE	357		67. 491	36. 115	1.00 11.73	Ą	C
ATOM	2663		PHE	357		66. 693	35. 763	1.00 10.46	A	C
ATOM	2664	CE1		357		66.638	37. 216	1.00 7.55	A	C
ATOM	2665	CE2		357		65.838	36. 863	1.00 11.70	A	C
ATOM	2666	CZ	PHE	357		65.811	37. 591	1.00 6.24	Ą	C
ATOM	2667	C	PHE	357		70. 786	33. 377	1.00 23.17	A	C
ATOM	2668	0	PHE	357		71.196	33.005	1.00 26.25	A	0
ATOM	2669	N	ARG	358		71.100	32. 782	1.00 20.84	A	N
ATOM	2670	CA	ARG	358		71.972	31.615	1.00 20.05	A	C
ATOM	2671	CB	ARG	358		71. 297	30.396	1.00 19.30	A	Č
ATOM	2672	CG	ARG	358		69. 991	30.011	1.00 21.15	A	C
ATOM	2673	CD	ARG	358		69.613	28. 598	1.00 24.58	A	C
ATOM	2674	NE	ARG	358		68. 333	28. 205	1.00 31.68	A	N
ATOM	2675	CZ	ARG	358		67. 924	26.943	1.00 34.22	A	C
ATOM	2676		ARG	358		68. 701	25. 939	1.00 31.56	A	N
ATOM	2677		ARG	358	45.640	66. 727	26.687	1.00 33.62	A	N
ATOM	2678	C	ARG	358	45.081	72. 315	31. 313	1.00 20.40	A	C
ATOM	2679	0	ARG	358		71.608	31. 734	1.00 20.47	A	0
ATOM	2680	N	PRO	359		73.404	30. 570	1.00 21.33	A	N
ATOM	2681	CD	PR0	359		74. 338	29. 940	1.00 20.09	A	C
ATOM	2682	CA	PR0	359		73.772	30. 254	1.00 21.44	A	C C C
ATOM	2683	CB	PR0	359		74. 911	29. 264	1.00 20.76	A	C
ATOM	2684	CG	PR0	359		75. 539	29.713	1.00 21.86	A	C
ATOM	2685	C	PR0	359		72.574	29.652	1.00 21.94	A	
ATOM	2686	0	PR0	359		71.866	28.827	1.00 21.94	A	0
ATOM	2687	N	SER	360	41.499	72.350	30.070	1.00 22.48	A	N
ATOM	2688	CA	SER	360	40. 723	71. 208	29. 596	1.00 24.26	A	C
ATOM	2689	CB	SER	360	39. 501	70.986	30.497	1.00 25.29	A	C
ATOM	2690	OG ·		360	38. 505	71.976	30. 283	1.00 27.66	A	0
ATOM	2691	C	SER	360	40. 262	71. 280	28. 140	1.00 25.67	A	C
ATOM	2692	0	SER	360	40.117	72. 359	27. 555	1.00 25.66	A	0
ATOM	2693	N	GLU	361	40.024	70.104	27. 573	1.00 25.65	Ą	N
ATOM	2694	CA	GLU	361	39. 581	69. 972	26. 199	1.00 27.20	Α	С

					FΙ	G. 4	- 5 6			(Continued)
ATOM	2695	CB	GLU	361	39. 803	68.540	25. 713	1.00 30.37	Α	С
ATOM	2696	CG	GLU	361	39. 356	67. 444	26. 683	1.00 36.42	A	č
ATOM	2697	CD	GLU	361	40. 340	67. 226	27. 839	1.00 42.80	A	č
ATOM	2698	0E1		361	40. 317	68. 002	28. 822	1.00 43.77	A	ŏ
					41. 152	66. 274	27. 757	1.00 46.60	A	Ö
ATOM	2699	OE2		361		70. 324	26. 052	1.00 40.00		Č
ATOM	2700	C	GLU	361	38. 112				A	
ATOM	2701	0	GLU	361	37. 295	69. 955	26. 888	1.00 27.12	A	0
ATOM	2702	N	PRO	362	37. 760	71.061	24. 989	1.00 23.97	A	N
ATOM	2703		PRO	362	38. 650	71.837	24. 106	1.00 23.33	A	C
ATOM	2704		PRO	362	36. 365	71.436	24. 767	1.00 22.45	A	C
ATOM	2705	CB	PRO	362	36. 485	72. 714	23. 945	1.00 23.21	A	C
ATOM	2706		PR0	362	37. 679	72. 437	23. 100	1.00 21.08	A	C
ATOM	2707	C	PR0	362	35. 621	70. 338	24. 013	1.00 21.91	Α	C
ATOM	2708	0	PRO	362	36. 216	69.582	23. 249	1.00 22.96	Α	0
ATOM	2709	N	HIS	363	34. 318	70. 259	24. 245	1.00 21.59	Α	N
ATOM	2710	CA	HIS	363	33. 459	69.280	23.596	1.00 19.88	Α	C
ATOM	2711	CB	HIS	363	32.868	68.353	24.649	1.00 18.03	Α	С
ATOM	2712	CG	HIS	363	33.898	67. 568	25. 398	1.00 16.56	Α	C
ATOM	2713		HIS	363	34.638	67.880	26.489	1.00 16.19	Α	С
ATOM	2714	ND1		363	34. 292	66.303	25.019	1.00 14.56	Α	N
ATOM	2715	CE1		363	35. 227	65.869	25.843	1.00 14.60	Ā	C
ATOM	2716	NE2		363	35. 457	66. 808	26. 744	1.00 16.65	Ā	N
ATOM	2717	C	HIS	363	32. 364	70.081	22. 903	1.00 20.84	A	Ċ
ATOM	2718	ŏ	HIS	363	31. 535	70. 709	23. 564	1.00 20.84	Ä	ŏ
ATOM	2719	N	PHE	364	32. 383	70. 075	21.573	1.00 19.87	A	N
ATOM	2720	CA	PHE	364	31.416	70.832	20. 786	1.00 18.84	A	Č
ATOM	2721	CB	PHE	364	32. 042	71.310	19. 470	1.00 18.67	A	č
ATOM	2722	CG	PHE	364	33. 073	72. 390	19.629	1.00 18.84	A	Č
	2723		PHE	$\frac{364}{364}$	34. 341	72. 096	20.117	1.00 13.04	A	Č
ATOM	2724				32. 776	73. 708	19. 274	1.00 16.76		
ATOM			PHE	364				1.00 16.70	A	C
ATOM	2725		PHE	364	35. 298	73.095	20. 246	1.00 16.92	A	C
ATOM	2726		PHE	364	33. 727	74. 711	19.401		A	C
ATOM	2727		PHE	364	34. 988			1.00 16.59	A	C
ATOM	2728	C	PHE	364	30. 172	70.046	20. 432	1.00 19.35	A	C
ATOM	2729	0	PHE	364	30. 226	68. 831	20. 262	1.00 20.71	A	0
ATOM	2730	N	THR	365	29. 050	70. 750	20.313	1.00 18.81	A	N
ATOM	2731	CA	THR	365	27. 805	70.113	19. 912	1.00 18.11	A	C
ATOM	2732	CB	THR	365	26.600	71.017	20. 161	1.00 17.38	A	C
ATOM	2733	0G1	THR	365	26. 521	71.991	19. 119	1.00 22.40	A	0
ATOM	2734	CG2	THR	365	26. 741	71.734	21.487	1.00 13.72	Α	C C
ATOM	2735	C	THR	365	28. 001	69.954	18. 409	1.00 17.58	Α	C
ATOM	2736	0	THR	365	28. 823	70.650	17.824	1.00 16.70	Α	0
ATOM	2737	N	LEU	366	27. 250	69.058	17. 784	1.00 19.74	Α	N
ATOM	2738	CA	LEU	366	27. 388	68. 799	16.350	1.00 19.89	Α	С
ATOM	2739	CB	LEU	366	26. 237	67.923	15.860	1.00 19.49	Α	С
ATOM	2740	CG	LEU	366	26. 338	67.381	14. 431	1.00 19.63	Α	C .
ATOM	2741	CD1	LEU	366	27. 606	66.542	14. 282	1.00 20.45	Α	C .
ATOM	2742		LEU	366	25. 112	66. 539	14.128	1.00 17.80	Α	C
ATOM	2743	C	LEU	366	27. 503	70.017	15.438	1.00 21.11	Α	C

										(Continued)
					F I	G. 4	- 5 7			
ATOM	2744	0	LEU	366	28. 269	69. 989	14. 476	1.00 24.21	Α	0
ATOM	2745	N	ASP		26. 764		15.722	1.00 21.26	Ä	N
ATOM	2746	CA	ASP		26. 830		14.867	1.00 22.95	A	C
ATOM	2747	CB	ASP	367	25. 567		15.005	1.00 26.09	Α	С
ATOM	2748	CG	ASP	367	25. 458	73. 796	16.355	1.00 29.82	Α	С
ATOM	2749		ASP	367	26.469		17.094	1.00 28.76	Α	0
ATOM	2750		ASP	367	24. 352		16.669	1.00 31.88	Α	0
ATOM	2751	С	ASP	367	28. 047		15. 139	1.00 22.76	A	С
ATOM	2752	0	ASP	367	28. 274		14. 448	1.00 25.46	Α	0
ATOM	2753	N	GLY		28. 818		16. 155	1.00 21.02	Α	N
ATOM	2754	CA	GLY	368	30. 001	73. 541	16.480	1.00 18.54	Α	С
ATOM	2755	C	GLY	368	29. 740		16. 987	1.00 17.42	Α	С
ATOM	2756	0	GLY	368	30. 678		17. 237	1.00 17.82	Α	0
ATOM	2757	N	ASN	369	28. 482		17. 164	1.00 17.57	Α	N
ATOM	2758	CA	ASN	369	28. 196		17.647	1.00 17.82	A	C
ATOM	2759	CB	ASN	369	26. 838		17. 144	1.00 18.92	A	C
ATOM	2760	CG	ASN	369	26. 797		15. 649	1.00 22.41	A	C
ATOM ATOM	2761	OD1		369	27. 657	77.871	15.038	1.00 23.56	A	0
ATOM	2762 2763		ASN	369	25. 798		15.038	1.00 26.52	A	N
ATOM	2764	C 0	ASN ASN	369 369	28. 270	76.838	19.158	1.00 16.27	A	C
ATOM	2765	N	SER	309 370	28. 185	77. 949	19.665	1.00 16.44	A	0
ATOM	2766	CA	SER	370	28. 432 28. 533	75. 742 75. 824	19.882	1.00 15.67	A	N
ATOM	2767	CB	SER	370	27. 145	75. 766	21.330 21.971	1.00 16.34	A	C
ATOM	2768	OG	SER	370	26. 523	74. 518	21. 739	1.00 14.45 1.00 14.37	A	C
ATOM	2769	C	SER	370	29. 381	74. 660	21. 739	1.00 14.37	A	0
ATOM	2770	ŏ	SER	370	29. 565	73. 701	21. 058	1.00 18.15	A	C 0
ATOM	2771	Ň	PHE	371	29. 910	74. 742	23. 014	1.00 18.13	A A	N
ATOM	2772	ĊA	PHE	371	30. 735	73. 660	23. 532	1.00 16.28	A	C
ATOM	2773	CB	PHE	371	32. 194	73. 808	23. 062	1.00 10.28	A	C
ATOM	2774	ĊĞ	PHE	371	32. 881	75.062	23. 546	1.00 11.31	A	C
ATOM	2775		PHE	371	32. 799	76. 243	22. 818	1.00 11.07	A	Č
ATOM	2776		PHE	371	33. 635	75.050	24. 726	1.00 11.89	A	Č
ATOM	2777		PHE	371	33. 465	77.409	23. 256	1.00 12.04	Ä	č
ATOM	2778		PHE	371	34. 302	76. 205	25. 178	1.00 9.92	Ä	č
ATOM	2779	CZ	PHE	371	34. 219	77.383	24.444	1.00 9.76	A	č
ATOM	2780	C	PHE	371	30. 703	73.545	25.048	1.00 16.26	Ä	Č
ATOM	2781	0	PHE	371	30. 362	74. 495	25.752	1.00 15.15	Ä	0
ATOM	2782	N	TYR	372	31.053	72.360	25.536	1.00 16.67	A	N
ATOM	2783	CA	TYR	372	31.091	72.089	26.962	1.00 16.84	A	C
ATOM	2784	CB	TYR	372	30. 349	70.801	27. 271	1.00 16.79	Α	C
ATOM	2785	CG	TYR	372	28. 892	70.879	26.914	1.00 18.47	Α	C
ATOM	2786		TYR	372	28. 470	70. 744	25.589	1.00 16.97	Α	C
ATOM	2787		TYR	372	27. 129	70.850	25. 255	1.00 19.91	Α	С
ATOM	2788	CD2		372	27. 931	71.124	27. 901	1.00 18.26	A	Č
ATOM	2789	CE2		372	26. 592	71. 235	27. 581	1.00 19.23	A	C
ATOM	2790	CZ	TYR	372	26. 193	71.097	26. 258	1.00 21.51	A	C
ATOM	2791	OH	TYR	372	24. 860	71. 210	25. 944	1.00 23.32	A	0
ATOM	2792	C	TYR	372	32. 547	71.977	27. 367	1.00 18.35	Α	C

ATOM 2793 O TYR 372 33.388 71.557 26.571 1.00 20.30 A O ATOM 2794 N LYS 373 32.845 72.325 28.611 1.00 18.89 A N ATOM 2795 CA LYS 373 34.224 72.318 29.071 1.00 19.69 A C ATOM 2796 CB LYS 373 34.907 73.541 28.459 1.00 19.69 A C ATOM 2797 CG LYS 373 36.302 73.863 28.889 1.00 20.48 A C ATOM 2798 CD LYS 373 36.658 75.193 28.240 1.00 23.59 A C ATOM 2799 CE LYS 373 38.048 75.703 28.601 1.00 25.15 A C ATOM 2800 NZ LYS 373 38.103 77.196 28.404 1.00 24.26 A N ATOM 2801 C LYS 373 34.277 72.369 30.593 1.00 20.26 A C ATOM 2802 O LYS 373 33.474 73.050 31.231 1.00 21.08 A O ATOM 2803 N ILE 374 35.215 71.634 31.176 1.00 20.43 A N ATOM 2804 CA ILE 374 35.358 71.624 32.621 1.00 19.63 A C ATOM 2805 CB ILE 374 35.358 71.624 32.621 1.00 19.63 A C ATOM 2806 CG2 ILE 374 36.100 70.361 34.650 1.00 19.72 A C ATOM 2807 CG1 ILE 374 35.095 69.128 32.667 1.00 19.17	inued)
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ATOM 2808 CD1 ILE 374 35.652 67.753 33.079 1.00 15.57 A C ATOM 2809 C ILE 374 36.290 72.745 33.046 1.00 19.75 A C	
ATOM 2810 0 ILE 374 37.408 72.846 32.551 1.00 21.23 A 0	
ATOM 2811 N ILE 375 35.824 73.595 33.951 1.00 20.12 A N	
ATOM 2812 CA ILE 375 36.643 74.684 34.456 1.00 20.15 A C	
ATOM 2813 CB ILE 375 36.396 76.014 33.700 1.00 20.38 A C	
ATOM 2814 CG2 ILE 375 36.685 75.837 32.215 1.00 20.24 A C	
ATOM 2815 CG1 ILE 375 34.966 76.488 33.919 1.00 20.36 A C	
ATOM 2816 CD1 ILE 375 34.645 77.772 33.186 1.00 21.00 A C	
ATOM 2817 C ILE 375 36.346 74.893 35.929 1.00 21.63 A C	
ATOM 2818 0 ILE 375 35.283 74.512 36.426 1.00 21.72 A 0	
ATOM 2819 N SER 376 37.301 75.481 36.634 1.00 22.04 A N	
ATOM 2820 CA SER 376 37.132 75.740 38.051 1.00 23.67 A C	
ATOM 2821 CB SER 376 38.449 76.228 38.632 1.00 21.76 A C	
ATOM 2822 OG SER 376 38. 336 76. 411 40. 022 1. 00 26. 97 A 0	
ATOM 2823 C SER 376 36.063 76.809 38.210 1.00 24.46 A C	
ATOM 2824 0 SER 376 36.042 77.768 37.445 1.00 27.59 A 0	
ATOM 2825 N ASN 377 35.164 76.659 39.177 1.00 25.41 A N	
ATOM 2826 CA ASN 377 34.128 77.673 39.356 1.00 26.19 A C	
ATOM 2827 CB ASN 377 32.755 77.023 39.602 1.00 25.06 A C	
ATOM 2828 CG ASN 377 32.682 76.222 40.894 1.00 22.15 A C	
ATOM 2829 OD1 ASN 377 33.560 76.294 41.750 1.00 23.03 A O ATOM 2830 ND2 ASN 377 31.606 75.457 41.039 1.00 20.01 A N	
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ATOM 2838 OE1 GLU 378 31.099 83.430 41.148 1.00 49.20 A C ATOM 2838 OE1 GLU 378 29.946 82.970 40.972 1.00 51.65 A O	
ATOM 2839 OE2 GLU 378 31.312 84.619 41.489 1.00 50.97 A 0	
ATOM 2840 C GLU 378 34.065 79.975 43.208 1.00 32.75 A C	
ATOM 2841 0 GLU 378 34.582 80.718 44.040 1.00 33.80 A 0	

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<b>МОТА</b>	2842	N	GLU	379	33. 842	78. 687	43. 436	1.00 31.75	Α	N
ATOM	2843	CA	GLU	379	34. 192	78. 070	44. 709	1.00 31.73	· A	Ċ
ATOM ATOM	2844	CB	GLU	379	33. 083	77. 141	45. 182	1.00 35.37	A	č
ATOM	2845	CG	GLU	379	31. 752	77. 788	45.416	1.00 40.59	A	Č
ATOM	2846	CD	GLU	379	30. 678	76. 751	45.677	1.00 46.30	A	Č
ATOM	2847	0E1	GLU	379	30. 363	75. 976	44. 741	1.00 48.81	A	Ö
ATOM	2848			379	30. 159	76. 700	46. 815	1.00 49.11	A	Ö
ATOM	2849	C	GLU	379	35. 466	77. 252	44. 589	1.00 30.70	A	Č
ATOM	2850	0	GLU	379	35. 952		45. 578	1.00 30.56	A	Ö
ATOM	2851	N	GLY	380	35. 986	77. 136	43. 373	1.00 29.06	A	N
ATOM	2852	CA	GLY	380	37. 203	76. 377	43. 171	1.00 27.19	A	Ċ
ATOM	2853	C	GLY	380	36. 979	74. 931	42. 781	1.00 27.69	A	Č
ATOM	2854	ŏ	GLY	380	37. 935		42.662	1.00 27.62	A	0
ATOM	2855	N	TYR	381	35. 726		42.586	1.00 26.46	A	N
ATOM	2856	CA	TYR	381	35. 434		42. 191	1.00 26.78	A	Ċ
ATOM	2857	CB	TYR	381	34. 175		42.903	1.00 26.62	Ā	Ċ
ATOM	2858	CG	TYR	381	34. 394		44. 379	1.00 24.99	Ä	Č
ATOM	2859	CD1	TYR	381	34. 864		44.853	1.00 24.93	A	C C C
ATOM	2860	CE1	TYR	381	35. 145		46. 204	1.00 26.71	A	Č
ATOM	2861	CD2		381	34. 202		45. 296	1.00 25.27	Ā	Č
ATOM	2862	CE2		381	34. 480		46.647	1.00 26.88	A	Č
ATOM	2863	CZ	TYR	381	34. 955	72.082	47.097	1.00 28.08	A	Č
ATOM	2864	OH	TYR	381	35. 266		48. 429	1.00 28.31	Ā	0
ATOM	2865	C	TYR	381	35. 261	73.100	40.678	1.00 26.94	Ä	Č
ATOM	2866	ŏ	TYR	381	34. 542	73.911	40.091	1.00 28.94	Ā	Ō
ATOM	2867	Ň	ARG	382	35. 938		40.045	1.00 24.97	Α	N
ATOM	2868	ĊA	ARG	382	35. 855	72.003	38.600	1.00 22.04	A	C
ATOM	2869	CB	ARG	382	37.057	71.211	38.081	1.00 24.10	A	С
ATOM	2870	CG	ARG	382	38. 322	72.045	38.110	1.00 24.01	Α	C C C
ATOM	2871	CD	ARG	382	39.606		38. 141	1.00 24.10	Α	С
ATOM	2872	NE	ARG	382	40.647		38.712	1.00 23.35	Α	N
ATOM	2873	CZ	ARG	382	41.178		38.096	1.00 23.31	Α	C
ATOM	2874	NH1	ARG	382	40.783	73.449	36.868	1.00 21.52	Α	N
ATOM	2875		ARG	382	42.052	73.907	38.738	1.00 22.46	Α	N
ATOM	2876	С	ARG	382	34. 548	71.359	38.186	1.00 20.92	Α	С
ATOM	2877	0	ARG	382	34. 189	70.270	38.645	1.00 18.12	Α	0
ATOM	2878	N	HIS	383	33. 840		37. 313	1.00 20.45	Α	N
ATOM	2879	CA	HIS	383	32.545		36.813	1.00 20.33	Α	C C
ATOM	2880	CB	HIS	383	31.440		37. 581	1.00 20.76	Α	C
ATOM	2881	CG	HIS	383	31.177		38.939	1.00 22.34	Α	C
ATOM	2882		HIS	383	31.590		40.168	1.00 21.75	A	C
ATOM	2883		HIS	383	30.418		39.132	1.00 20.42	Α	N
ATOM	2884		HIS	383	30. 374		40. 422	1.00 22.91	A	C
ATOM	2885		HIS	383	31.076		41.073	1.00 22.25	A	N
ATOM	2886	C	HIS	383	32. 404		35. 330	1.00 20.36	A	C
ATOM	2887	0	HIS	383	33. 240		34. 728	1.00 19.84	A	0
ATOM	2888	N	ILE	384	31. 325		34. 748	1.00 19.26	A	N
ATOM	2889	CA	ILE	384	31.078		33. 329	1.00 17.93	A	C
ATOM	2890	CB	ILE	384	30. 232	70.419	32.802	1.00 17.52	A	С

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					F I	G. 4	- 60				
	TOM 289		ILE ILE	384 384	30. 005 30. 928	70. 566 69. 097	31. 290 33. 155	1.00 15.28 1.00 12.97	A A	C C	
	TOM 289			384	30. 093	67. 865	32. 909	1.00 9.57	. A	C	
	OM 289		ILE	384	30. 376	72.898	33. 028	1.00 19.30	A	C	
	OM 289		ILE	384	29. 333	73. 198	33.605	1.00 18.50	A	0 N	
	COM 289 COM 289		CYS CYS	385 385	30. 950 30. 349	73. 681 74. 953	32. 120 31. 745	1.00 21.14 1.00 24.26	A	N	
	OM 289		CYS	385	29. 932	74. 887	30. 284	1.00 24.20	A A	C C	
	OM 289		CYS	385	30. 654	74. 334	29. 464	1.00 23.61	A	0	
	OM 290		CYS	385	31. 344	76. 106	31. 958	1.00 27.85	A	Č	
	OM 290		CYS	385	30. 561	77. 640	32. 569	1.00 37.75	A	Š	
	OM 290		TYR	386	28. 760	75.440	29. 973	1.00 23.26	A	Ň	
	OM 290		TYR	386	28. 237	75.470	28.609	1.00 21.88	A	C	
AT	'OM 290	14 CB	TYR	386	26.726	75. 271	28.612	1.00 21.89	Α	C	
	OM 290		TYR	386	26. 120	75. 183	27. 228	1.00 23.48	Α	C	
	OM 290			386	24. 912	75.825	26. 930	1.00 23.55	Α	С	
	OM 290		TYR	386	24. 323	75. 712	25.665	1.00 24.11	Α	C	
	OM 290		TYR	386	26. 728	74. 424	26. 223	1.00 22.70	A	C	
	OM 290		TYR	386	26. 144	74. 299	24. 956	1.00 23.04	A	Č	
	OM 291		TYR	386	24. 943	74. 946	24. 686	1.00 24.39	A	C	
	'OM 291 'OM 291		TYR TYR	386 386	24. 358 28. 549	74. 823	23. 449	1.00 23.13	. A	0	
	OM 291		TYR	386	28. 187	76. 816 77. 868	27. 962 28. 493	1.00 22.02 1.00 22.52	A	C	
	OM 291		PHE	387	29. 201	76. 775	26. 806	1.00 22.32	A A	O N	
	OM 291		PHE	387	29. 582	77. 988	26.080	1.00 21.13	A	C	
	OM 291		PHE	387	31.087	77. 987	25. 781	1.00 17.05	A	Č	
	OM 291		PHE	387	31.970	78. 222	26. 973	1.00 14.01	Ä	č	
AT			PHE	387	32. 547	79. 469	27. 185	1.00 9.81	Ä	č	
AT	OM 291	9 CD2	PHE	387	32. 293	77.178	27.835	1.00 11.20	A	Č	
AT			PHE	387	33. 440	79.672	28. 231	1.00 9.80	Α	С	
AT			PHE	387	33. 185	77.376	28. 885	1.00 10.91	Α	C	
AT			PHE	387	33. 762	78.626	29. 082	1.00 9.32	Α	C	
AT			PHE	387	28. 888	78. 153	24. 727	1.00 20.94	Α	C	
AT			PHE	387	28. 552	77. 180	24. 055	1.00 19.77	A	0	
AT AT			GLN	388	28. 706	79. 406	24. 332	1.00 21.79	A	N	
AT			GLN GLN	388 388	28. 151 27. 024	79. 742 80. 760	23. 030	1.00 22.21	A	C	
AT			GLN	388	25. 745	80. 343	23. 177 22. 477	1.00 23.86 1.00 29.81	A	C	
AT			GLN	388	25. 096	79. 126	23. 109	1.00 23.81	A A	C	
AT				388	24. 357	78. 391	22. 452	1.00 34.98	A	0	
AT			GLN	388	25. 356	78. 913	24. 395	1.00 36.34	Ä	N	
AT			GLN	388	29. 403	80. 382	22. 427	1.00 21.72	Ä	C	
AT	OM 293	3 0	GLN	388	29.845	81.428	22.893	1.00 22.74	Ä	ŏ	
AT			ILE	389	29. 982	79. 745	21.415	1.00 20.66	A	N	
AT			ILE	389	31. 231	80. 215	20.821	1.00 21.00	Α	С	
AT			ILE	389	31.466	79.617	19.422	1.00 20.76	A	C	•
AT			ILE	389	31.410	78. 100	19.496	1.00 19.50	A	C	
AT(			ILE ILE	389 389	30. 448	80. 165 70. 864	18. 429	1.00 19.48	A	C	
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A TOM	9040	C	TTE	200	31.483	81.713	20. 735	1.00 23.29	Α	С
ATOM	2940	C	ILE	389 389		82. 146	20. 776	1.00 23.23	A	ŏ
ATOM	2941	0 N	ILE ASP	390		82. 505	20.611	1.00 24.96	A	Ň
ATOM	2942	N CA	ASP	390 390		83. 953	20. 533	1.00 24.30	A	Č
ATOM	2943	CA CB	ASP	390		84. 508	19. 275	1.00 29.09	A	č
ATOM	2944 2945	CG	ASP	390	28. 467	84. 215	19. 216	1.00 30.91	A	č
ATOM		OD1		390		84. 955	18. 517	1.00 35.45	A	ŏ
ATOM	2946 2947	OD1		390	28. 029	83. 236	19.858	1.00 33.49	Ä	ŏ
ATOM	2948	C	ASP	390	30. 005	84. 676	21.738	1.00 26.43	A	č
ATOM	2949	0	ASP	390	29. 402	85. 735	21.603	1.00 26.54	Ä	ŏ
ATOM	2949	N	LYS	391	30. 163	84. 078	22. 910	1.00 27.05	A	Ň
ATOM	2950 2951		LYS	391	29. 707	84. 679	24. 150	1.00 28.81	A	Ċ
ATOM ATOM	2952		LYS	391	28. 348	84. 128	24. 566	1.00 28.62	A	č
ATOM	2953		LYS	391	27. 203	84. 790	23.824	1.00 31.00	A	č
ATOM	2954	CD	LYS	391	25. 867	84. 228	24. 256	1.00 34.06	A	č
ATOM	2955	CE	LYS	391	24. 733	84. 772	23. 413	1.00 33.69	Ä	Č ·
ATOM	2956	NZ	LYS	391	23. 454	84. 073	23. 742	1.00 36.51	A	N
ATOM	2957	C	LYS	391	30. 772	84. 369	25. 183	1.00 29.11	Ä	Ĉ
ATOM	2958	ŏ	LYS	391	31. 192	83. 223	25. 327	1.00 29.45	A	Ö
ATOM	2959	N	LYS	392	31. 219	85. 401	25. 888	1.00 29.66	A	N
ATOM	2960	CA	LYS	392	32. 281	85. 248	26.872	1.00 30.67	A	Ĉ
ATOM	2961	CB	LYS	392	33. 069	86. 558	26. 985	1.00 28.28	A	Č
ATOM	2962	CG	LYS	392	33. 516	87. 119	25.636	1.00 27.07	A	Č
ATOM	2963	CD	LYS	392	34. 330	86.098	24. 852	1.00 27.55	A	Č
ATOM	2964	CE	LYS	392	34. 643	86. 588	23. 449	1.00 26.02	Ä	Č
ATOM	2965	NZ	LYS	392	35. 369	87. 872	23.495	1.00 25.63	A	Ň
ATOM	2966	C	LYS	392	31.824	84. 797	28. 248	1.00 31.24	A	C
ATOM	2967	Ŏ	LYS	392	32. 637	84.679	29.162	1.00 32.17	Ā	0
ATOM	2968	Ň	ASP	393	30. 531	84.548	28.403	1.00 31.57	Α	N
ATOM	2969	CA	ASP	393	30.015	84.098	29.690	1.00 33.64	Α	С
ATOM	2970	CB	ASP	393	29.052	85.134	30. 271	1.00 36.88	Α	С
ATOM	2971	CG	ASP	393	29. 734	86.450	30.567	1.00 41.66	Α	С
ATOM	2972	0D1		393	30.607	86.475	31.467	1.00 43.84	Α	0
ATOM	2973		ASP	393	29. 409	87.455	29.895	1.00 44.39	Α	0
ATOM	2974	C	ASP	393	29.309	82.761	29.546	1.00 32.46	Α	C
ATOM	2975	0	ASP	393	28. 294	82.666	28.859	1.00 32.91	Α	0
ATOM	2976	N	CYS	394	29. 841	81.731	30. 198	1.00 30.05	Α	N
ATOM	2977	CA	CYS	394	29. 243	80.410	30.115	1.00 28.94	Α	C
ATOM	2978	C	CYS	394	28. 312	80.116	31. 282	1.00 27.56	Α	C
ATOM	2979	0	CYS	394	28. 262	80. 858	32. 258	1.00 27.11	Α	0
ATOM	2980	CB	CYS	394	30. 336	79. 338	30.033	1.00 31.03	Α	C
ATOM	2981	SG	CYS	394	31.401	79.166	31.504	1.00 34.42	A	S
ATOM	2982	N	THR	395	27. 570	79. 023	31. 167	1.00 25.71	A	N .
ATOM	2983	CA	THR	395	26. 645	78. 608	32. 204	1.00 25.01	A	C .
ATOM	2984	CB	THR	395	25. 208	78. 512	31.647	1.00 25.50	A	C
ATOM	2985	0G1		395	24. 709	79. 833	31.407	1.00 28.36	A	0
ATOM	2986		THR	395	24. 289	77.779	32. 620	1.00 21.52	A	C
ATOM	2987	C	THR	395	27. 048	77. 251	32. 772	1.00 24.22	A.	C
ATOM	2988	0	THR	395	27. 196	76. 280	32.036	1.00 24.44	A	0

										(Continued)
					FΙ	G. 4	- 62			•
ATOM	2989	N	PHE	396	27. 231	77. 185	34. 084	1.00 23.09	Α	N
ATOM	2990	CA	PHE	396	27. 594	75. 924	34. 715	1.00 23.03	Α	C
ATOM	2991	CB	PHE	396	28. 138	76.182	36. 116	1.00 22.19	A	Č
ATOM	2992		PHE		29. 581	76.617	36. 131	1.00 23.20	A	Č
ATOM	2993		1 PHE		30.604	75. 697	35.876	1.00 22.48	Α	C
ATOM	2994		2 PHE		29. 924	77. 935	36.415	1.00 20.97	Α	C
ATOM	2995		1 PHE		31.949	76.086	35. 908	1.00 20.26	Α	C
ATOM	2996		2 PHE		31.267	78. 331	36. 447	1.00 21.70	. A	C
ATOM	2997	CZ	PHE		32. 279	77. 400	36. 194	1.00 20.27	Α	C
ATOM	2998	C	PHE		26. 373	75.008	34. 764	1.00 20.96	Α	C
ATOM	2999	0	PHE		25. 311	75. 412	35. 218	1.00 20.96	Α	0
ATOM	3000	N	ILE		26. 523	73. 779	34. 279	1.00 18.88	Α	N
ATOM	3001	CA	ILE		25. 412	72.842	34. 262	1.00 18.00	Α	C
ATOM	3002	CB	ILE		25. 266	72. 165	32. 879	1.00 16.55	Α	C
ATOM	3003		ILE		25. 350	73. 209	31. 787	1.00 13.63	Α	C
ATOM	3004		ILE		26. 366	71. 130	32.669	1.00 16.02	Α	C
ATOM	3005		ILE		26. 180	70. 327	31. 402	1.00 17.85	Α	С
ATOM	3006	C	ILE		25. 527	71.770	35. 338	1.00 19.16	Α	С
ATOM	3007	0	ILE		24. 787	70. 787	35. 330	1.00 20.44	A	0
ATOM ATOM	3008	N	THR		26. 480	71. 956	36. 244	1.00 18.55	A	N
ATOM	3009 3010	CA CB	THR THR		26. 681	71.051	37. 367	1.00 19.41	A	C
ATOM	3011	0G1		398 398	27. 624	69. 858	37.051	1.00 19.56	A	C
ATOM	3012		THR	398	28. 978 27. 221	70. 321 69. 178	36. 960	1.00 22.60	A	0
ATOM	3013	C	THR	398	27. 343	71.899	35. 759 38. 424	1.00 18.50 1.00 20.24	A	C
ATOM	3014	ŏ	THR	398	27. 979	72. 903	38. 104	1.00 20.24	A	C
ATOM	3015	Ň	LYS	399	27. 185	71.511	39. 681	1.00 20.11	A	0
ATOM	3016	CA	LYS	399	27. 795	72. 258	40. 772	1.00 22.43	A A	N C
ATOM	3017	CB	LYS	399	27. 111	73. 618	40. 941	1.00 23.72	A	C
ATOM	3018	CG	LYS	399	25. 689	73. 583	41.462	1.00 27.65	A	Č
ATOM	3019	CD	LYS	399	25. 269	74.996	41.856	1.00 30.77	A	Č
ATOM	3020	CE	LYS	399	23.861	75.054	42.414	1.00 31.89	A	Č
ATOM	3021	NZ	LYS	399	22.841	74.747	41. 377	1.00 35.03	Ä	Ň
ATOM	3022	C	LYS	399	27. 751	71.476	42.077	1.00 22.46	A	Č
ATOM	3023	0	LYS	399	27. 125	70.425	42.154	1.00 21.96	Ä	0
ATOM	3024	N	GLY	400	28. 435	71.989	43.093	1.00 21.98	A	N
ATOM	3025	CA	GLY	400	28. 463	71.319	44. 378	1.00 22.66	Α	C
ATOM	3026	C	GLY	400	29. 891	71.115	44.839	1.00 24.94	Α	C
ATOM	3027	0	GLY	400	30. 831	71.449	44.118	1.00 26.10	Α	0
ATOM	3028	N	THR	401	30.064	70. 566	46. 036	1.00 25.34	Α	N
ATOM	3029	CA	THR	401	31.400	70. 335	46.560	1.00 26.41	Α	C
ATOM	3030	CB	THR	401	31.443	70. 541	48. 095	1.00 27.75	Α	C
ATOM ATOM	3031		THR	401	30.615	69. 567	48. 741	1.00 31.37	A	0
ATOM	3032 3033	C	THR THR	401 401	30. 924	71. 927		1.00 27.06	A	C
ATOM	3034	0	THR	401 401	31.923	68. 945		1.00 24.83	A	C
ATOM	3035	N	TRP	401	$32.027 \\ 32.229$	68. 049 68. 790		1.00 26.74	A	0
ATOM	3036	CA	TRP	402		67. 569		1.00 22.03 1.00 18.83	A	N
ATOM	3037	CB	TRP	402		66. 460		1.00 16.39	A A	C
					01.11		- 1. 200	00 10.00	Λ	V

					FΙ	G. 4	- 63			(Continued)
ATOM ATOM ATOM	3038 3039 3040		TRP TRP TRP	402	30. 434 30. 037 28. 701	66. 886 66. 865 67. 320	43. 709 42. 332 42. 278	1.00 17.90 1.00 19.16	A A	C C
ATOM ATOM ATOM	3040 3041 3042 3043	CE3 CD1	TRP TRP TRP	402 402 402 402	30. 679 29. 364 28. 318	66. 505 67. 345 67. 605	41. 137 44. 409 43. 562	1.00 20.21 1.00 18.78 1.00 17.97 1.00 20.57	A A A	C C C
ATOM ATOM ATOM	3044 3045 3046	CZ2 CZ3	TRP TRP TRP	402 402 402 402	27. 989 29. 972 28. 637	67. 425 66. 608 67. 064	41. 078 39. 943 39. 924	1.00 20.37 1.00 18.32 1.00 19.71 1.00 18.98	A A A	N C C C
ATOM ATOM ATOM	3047 3048 3049	C O N	TRP TRP GLU	402 402 403	33. 208 32. 956 33. 831	67. 983 69. 117 67. 089	42. 944 42. 540 42. 191	1.00 18.09 1.00 18.12 1.00 17.78	A A A	C O N
ATOM ATOM ATOM	3050 3051 3052	CA CB CG	GLU GLU GLU	403 403 403	34. 284 35. 776 36. 122	67. 484 67. 805 68. 824	40. 866 40. 926 41. 983	1.00 19.48 1.00 20.26 1.00 21.69	A A A	C C C
ATOM ATOM ATOM ATOM	3053 3054 3055 3056	CD OE1 OE2 C	GLU GLU GLU GLU	403 403 403 403	37. 433 37. 506 38. 384 34. 028	69. 522 70. 728 68. 880 66. 516	41. 721 42. 020 41. 223	1.00 23.95 1.00 25.27 1.00 24.57	A A A	C 0 0
ATOM ATOM ATOM	3057 3058 3059	O N CA	GLU VAL VAL	403 404 404	33. 891 33. 957 33. 760	65. 305 67. 073 66. 273	39. 716 39. 916 38. 508 37. 305	1. 00 19. 74 1. 00 20. 05 1. 00 18. 47 1. 00 17. 63	A A A	C O N C
ATOM ATOM ATOM	3060 3061 3062	CG2	VAL VAL VAL	404 404 404	33. 070 32. 974 31. 683	67. 073 66. 210 67. 515	36. 165 34. 914 36. 595	1.00 14.78 1.00 11.14 1.00 12.13	A A A	C C C
ATOM ATOM ATOM ATOM	3063 3064 3065 3066	C O N CA	VAL VAL ILE ILE	404 404 405	35. 153 35. 986 35. 410	65. 875 66. 732 64. 579	36. 836 36. 567 36. 764	1.00 18.38 1.00 20.01 1.00 18.83	A A A	C O N
ATOM ATOM ATOM	3067 3068 3069	CB CG2	ILE ILE ILE	405 405 405 405	36. 707 36. 868 38. 254 36. 591	64. 088 62. 593 62. 123 62. 364	36. 323 36. 653 36. 283 38. 146	1.00 20.05 1.00 21.78 1.00 16.28 1.00 24.51	A A A	C C C
ATOM ATOM ATOM	3070 3071 3072		ILE ILE ILE	405 405 405	37. 438 36. 858 37. 912	63. 218 64. 290 64. 710	39. 079 34. 817 34. 345	1.00 26.24 1.00 19.94 1.00 20.67	A A A	C C C
ATOM ATOM ATOM	3073 3074 3075	N CA C	GLY GLY GLY	406 406 406	35. 803 35. 869 34. 566	63. 990 64. 171 63. 983	34. 064 32. 627 31. 881	1.00 19.40 1.00 16.85 1.00 16.78	A A A	N C C
ATOM ATOM ATOM ATOM	3076 3077 3078 3079	O N CA CB	GLY ILE ILE ILE	406 407 407 407	33. 679 34. 459 33. 303	63. 268 64. 652 64. 569	32. 330 30. 736 29. 852	1.00 17.43 1.00 17.49 1.00 16.98	A A A	O N C
ATOM ATOM ATOM	3080 3081 3082	CG2 CG1 CD1	ILE ILE	407 407 407	32.779	65. 861 65. 671 67. 036 68. 357	28. 998 27. 874 29. 895 29. 157	1.00 16.67 1.00 16.93 1.00 16.45 1.00 11.65	A A A	C C C
ATOM ATOM ATOM	3083 3084 3085	C O N	ILE ILE GLU	407 407 408	33. 611 34. 599 32. 766	63. 392 63. 421 62. 367	28. 934 28. 212	1. 00 18. 17 1. 00 18. 89 1. 00 20. 84	A A A	C O N
ATOM	3086	CA	GLU	408	33.000	61.176	28. 122	1.00 22.31	Α	С

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#### (Continued) FIG. 4-64 3087 GLU 32.691 59.922 28.944 **ATOM** CB 408 1.00 21.64 3088 CG GLU 408 33.457 59.860 30.254 1.00 23.48 C **ATOM** A 34.963 30.048 3089 CD GLU 408 59.947 **ATOM** 1.00 26.15 A C 35.519 **ATOM** 3090 OE1 GLU 408 59.081 29.337 1.00 28.40 0 Α 35.594 3091 OE2 GLU 408 60.877 30.596 1.00 25.87 **ATOM** Α 0 3092 **GLU** 408 32.262 61.097 26.780 **ATOM** 1.00 22.35 A C 32.743 60.455 **ATOM** 3093 **GLU** 408 25.846 1.00 23.83 0 0 Α **ATOM** 3094 **ALA** 409 31.100 61.729 26.671 N 1.00 22.21 A N 25.414 3095 ALA 409 30.356 61.685 1.00 20.74 ATOM CA A C **ATOM** 29.797 60.294 3096 CB ALA 409 25.180 1.00 21.17 C Α 29.235 **ATOM** 3097 **ALA** 409 62.708 25.386 1.00 20.05 C A 409 **ATOM** 3098 28.651 63.041 26.413 0 ALA 1.00 19.39 0 Α 24. 195 **ATOM** 3099 28.937 LEU 410 63. 201 N 1.00 19.25 N Α CA LEU 27.911 ATOM 3100 410 64.207 24.038 1.00 19.28 A C **ATOM** 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 C A **ATOM** 3102 CG LEU 27.634 66.778 410 23.617 1.00 20.83 C Α 24.935 26.959 67.089 **ATOM** 3103 CD1 LEU 410 1.00 20.92 C Α Č 67.987 **ATOM** 3104 CD2 LEU 410 28.434 23.134 1.00 20.28 Α **ATOM** 3105 C LEU 410 26.998 63.874 22.879 1.00 20.25 C Α 21.758 LEU 27.453 **ATOM** 3106 0 410 63.649 1.00 20.84 Α 0 **ATOM** 3107 N THR 411 25.701 63.834 23. 150 1.00 19.86 N Α 22.100 **ATOM** 3108 CA THR 411 24.741 63.561 1.00 18.40 A C 23.902 **ATOM** 3109 CB 62.339 THR 411 22.418 1.00 15.82 C **ATOM** 3110 OG1 THR 23.017 411 62.649 23.498 1.00 15.79 A 0 ATOM 3111 CG2 THR 411 24.797 61.177 22.811 1.00 14.12 C Α **ATOM** 3112 C THR 411 23.846 64.787 22.050 1.00 20.16 A C **ATOM** 65.684 3113 0 THR 23.971 1.00 21.79 411 22.882 Α 0 **ATOM** N 22.952 3114 **SER** 412 64.836 21.074 1.00 20.25 Α N **ATOM** 3115 CA 412 22.061 SER 65.972 20.945 1.00 21.09 A C **ATOM** 3116 CB SER 412 21.206 65.827 19.687 1.00 22.27 A C ATOM 3117 0G SER 412 20.474 64.618 19.721 1.00 25.03 Α 0 **ATOM** 3118 $\mathbf{C}$ SER 412 21.158 66.118 22.153 1.00 21.84 C Α **ATOM** 3119 0 SER 412 20.598 67.185 22.379 1.00 22.97 Α 0 **ATOM** 3120 N 22.934 ASP 413 21.015 65.054 1.00 22.56 Α N ASP **ATOM** 3121 CA 20.138 65.104 413 24.097 1.00 24.36 A C ATOM 3122 CB **ASP** 413 19.036 64.047 23.975 1.00 26.84 C Α **ATOM** 3123 CG **ASP** 413 18. 161 64.243 22.751 1.00 30.28 C Α ATOM 3124 OD1 ASP 413 17.153 63.515 22.635 1.00 32.47 A 0 3125 **ATOM** OD2 ASP 413 18.474 65.111 21.904 1.00 31.81 Α 0 ATOM 3126 C **ASP** 413 20.822 64.918 25.442 1.00 24.37 Α C 26.470 **ATOM** 3127 0 **ASP** 413 20.306 65.363 1.00 25.08 Α 0 **ATOM** 3128 **TYR** 21.974 N 414 64.259 25.444 1.00 24.23 Α N **ATOM** 3129 CA TYR 414 22.672 63.998 26.694 1.00 23.03 Α C 62.572 **ATOM** 3130 CB **TYR** 22.369 414 27.155 1.00 23.61 C Α 62.332 **ATOM** 3131 CG **TYR** 414 20.925 27.520 C 1.00 25.79 Α 3132 CD1 TYR 62.822 **ATOM** 414 20.402 28.714 C 1.00 26.31 Α Ċ **ATOM** 3133 CE1 TYR 62.621 414 19.071 29.052 1.00 26.99 Α CD2 TYR ATOM 3134 61.629414 20.074 26.666 1.00 24.67 A ATOM 3135 CE2 TYR 414 61.424 18.740 26.993 1.00 25.53



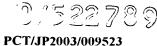
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					F I	G. 4	- 6 5			(Continued)
ATOM	3136	CZ	TYR	414	18. 246	61.923	28. 188	1.00 28.30	Α	С
ATOM	3137	OH	TYR	414	16. 925		28. 531	1.00 31.69	A	0
ATOM	3138	C	TYR	414	24. 180		26. 639	1.00 22.81	A	Č
ATOM	3139	ŏ	TYR	414	24. 811		25. 582	1.00 22.74	A	Ö
ATOM	3140	N	LEU	415	24. 741		27. 809	1.00 20.51	A	Ň
ATOM	3141	CA	LEU	415	26. 174		27. 996	1.00 18.28	A	Ċ
ATOM	3142	CB	LEU	415	26. 502		28. 358	1.00 16.58	A	č
ATOM	3143	CG	LEU	415	27. 945		28. 745	1.00 14.79	A	č
ATOM	3144		LEU	415	28. 184		28.606	1.00 13.01	A	č
ATOM	3145		LEU	415	28. 208		30. 163	1.00 14.04	A	č
ATOM	3146	CDZ	LEU	415	26. 518		29. 149	1.00 18.57	A	č
ATOM	3147	Õ	LEU	415	25. 926		30. 230	1.00 18.31	A	ŏ
ATOM	3148	N	TYR	416	27. 449		28. 909	1.00 19.11	A	Ň
ATOM	3149	CA	TYR	416	27. 843		29. 924	1.00 19.69	A	Ĉ
ATOM	3150	CB	TYR	416	27. 963		29. 309	1.00 18.66	A	č
ATOM	3151	CG	TYR	416	26. 698		28.645	1.00 17.78	A	č
ATOM	3152	CD1	TYR	416	26. 297		27.410	1.00 16.67	A	č
ATOM	3153		TYR	416	25. 137		26. 786	1.00 18.58	Ä	č
ATOM	3154		TYR	416	25. 908		29. 245	1.00 16.22	A	č
ATOM	3155		TYR	416	24. 754		28. 636	1.00 16.35	A	č
ATOM	3156	CZ	TYR	416	24. 374		27.406	1.00 18.54	• A	č
ATOM	3157	ОH	TYR	416	23. 252		26. 784	1.00 19.53	A	Ö
ATOM	3158	C	TYR	416	29. 167		30. 540	1.00 20.71	A	Č
ATOM	3159	Ŏ	TYR	416	30. 117		29.822	1.00 22.92	Ä	0
ATOM	3160	Ň	TYR	417	29. 238		31.866	1.00 19.27	A	N
ATOM	3161	CA	TYR	417	30. 472		32.544	1.00 19.08	A	Č
<b>ATOM</b>	3162	CB	TYR	417	30. 408		32.970	1.00 18.38	A	C
ATOM	3163	CG	TYR	417	29. 383		34.049	1.00 17.93	A	Č
ATOM	3164	CD1	TYR	417	29. 721	64. 213	35.399	1.00 15.25	Α	C C C
ATOM	3165		TYR	417	28. 784		36. 391	1.00 13.14	A	Č
ATOM	3166		TYR	417	28. 071	64.622	33.718	1.00 17.72	Α	C
ATOM	3167		TYR	417	27. 120		34.710	1.00 15.27	Α	С
ATOM	3168	CZ	TYR	417	27. 488	64.808	36.040	1.00 14.25	Α	C
ATOM	3169	OH	TYR	417	26. 556	65.046	37.020	1.00 14.06	Α	0
ATOM	3170	C	TYR	417	30.768	61.615	33.747	1.00 18.77	Α	C
ATOM	3171	0	TYR	417	29.918	60.853	34.207	1.00 18.74	Α	0
ATOM	3172	N	ILE	418	31.996	61.706	34. 236	1.00 17.63	Α	N
ATOM	3173	CA	ILE	418	32. 429	60.926	35. 379	1.00 16.60	Α	C
ATOM	3174	CB	ILE	418	33. 626	60.019	35.015	1.00 15.54	Α	C
ATOM	3175	CG2	ILE	418	34. 482	59. 737	36. 241	1.00 14.33	Α	С
ATOM	3176	CG1	ILE	418	33. 107		34. 378	1.00 15.75	Α	C
ATOM	3177	CD1	ILE	418	34. 183		33.964	1.00 15.48	A	C
ATOM	3178	C	ILE	418	32. 827		36. 453	1.00 18.54	A	C
ATOM	3179	0	ILE	418	33. 535		36. 190	1.00 20.83	A	0
ATOM	3180	N	SER	419	32. 356		37.664	1.00 19.59	A	N
ATOM	3181	CA	SER	419	32. 670		38. 764	1.00 20.34	A	C
ATOM	3182	CB	SER	419	31.523		38.996	1.00 21.79	A	C
ATOM	3183	OG C	SER	419	30. 415		39. 562	1.00 24.33	A	0
ATOM	3184	С	SER	419	32. 875	61.732	40.013	1.00 20.37	A	C

**ATOM** 

CE

425



C

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(Continued) FIG. 4-66 32.783 39.988 **ATOM** 3185 0 SER 419 60.503 1.00 20.32 0 Α 420 33.152 62.427 41.107 3186 ASN 1.00 19.64 **ATOM** N N 3187 CA ASN 420 33.357 61.786 42.387 1.00 20.07 C ATOM A 1.00 18.49 **ATOM** 3188 CB ASN 420 34.773 62.053 42.863 C Α 420 35.099 63.518 42.872 1.00 20.69 C 3189 **ASN ATOM** CG Α OD1 ASN 420 34.210 64.358 42.741 1.00 21.49 3190 0 **ATOM** Α **ATOM** 3191 ND2 ASN 420 36.376 63.844 43.034 1.00 21.39 A N 3192 C **ASN** 420 32.350 62.368 43.379 1.00 20.90 **ATOM** Α C 32.677 0 **ASN** 420 62.610 44.535 1.00 21.17 0 **ATOM** 3193 A 31.127 421 62.600 42.914 1.00 21.68 **ATOM** 3194 N GLU Α N 63.160 43.761 **ATOM** 3195 CA GLU 421 30.081 1.00 24.26 Α C CB GLU 421 28.935 63.722 42.901 1.00 26.18 C **ATOM** 3196 A 27.714 C **ATOM** 3197 CG GLU 421 64.214 43.701 1.00 25.32 Α 26.604 **ATOM** 3198 CD GLU 421 64.817 42.824 1.00 26.09 C Α 65.237 **ATOM** 3199 OE1 GLU 421 25.563 43.373 1.00 24.11 A 0 3200 0E2 GLU 421 26.762 64.873 41.588 1.00 27.22 0 **ATOM** Α 29.512 62.133 44.729 **ATOM** 3201 **GLU** 421 1.00 24.93 C C Α 1.00 27.30 29.185 62.457 45.868 **ATOM** 3202 0 **GLU** 421 A 0 N 422 29.409 60.892 44.272 1.00 23.63 **ATOM** 3203 **TYR** N A 3204 **TYR** 422 28.837 59.826 45.075 1.00 23.67 **ATOM** CA C A 1.00 23.61 422 28.942 58.503 44.311 **ATOM** 3205 CB **TYR** C A 422 28.015 C **ATOM** 3206 CG TYR 57.415 44.813 1.00 24.39 Α **ATOM** 3207 CD1 TYR 422 26.642 57.637 44.936 1.00 23.87 C Α 422 45.347 1.00 22.11 Ċ CE1 TYR 25.781 **ATOM** 3208 56.618 A 3209 CD2 TYR 422 28.505 45.120 C **ATOM** 56.147 1.00 24.53 Α **ATOM** 3210 CE2 TYR 422 27.654 55.124 45.533 1.00 23.32 C Α 1.00 23.52 **ATOM** 3211 CZ**TYR** 422 26.300 55.367 45.641 C Α 422 ATOM 3212 OH TYR 25.471 54.349 46.031 1.00 24.33 A 0 ATOM 3213 **TYR** 422 29.399 59.679 46.493 1.00 23.57 C A C **ATOM** 3214 422 30.599 46.704 1.00 23.17 0 **TYR** 59.478 0 Α **ATOM** 423 28.492 3215 N LYS 59.784 47.461 1.00 23.07 N Α **ATOM** 3216 CA LYS 423 59.661 28.813 48.878 1.00 22.04 A C **ATOM** 3217 CB LYS 423 29.156 58.205 49.205 1.00 24.22 C A **ATOM** 3218 CG LYS 423 27.967 57.266 49.009 1.00 25.11 C Α 3219 CD LYS 423 28.303 49.276 **ATOM** 55.809 1.00 26.55 C Α LYS 423 **ATOM** 3220 CE 27.079 54.930 49.002 1.00 28.11 C Α **ATOM** 3221 NZ LYS 423 27.302 53.498 49.336 1.00 27.79 Α N **ATOM** 3222 C LYS 423 29.923 60.583 49.347 1.00 21.46 A C **ATOM** 3223 LYS 423 30.533 0 60.340 50.385 1.00 20.97 0 Α 3224 **ATOM** N **GLY** 424 48.583 30.167 61.647 1.00 21.39 Α N 424 **ATOM** 3225 CA GLY 31.201 62.608 48.930 1.00 21.20 Α C ATOM 3226 **GLY** 424 32.606 62.034 48.961 1.00 21.98 C Α 3227 ATOM 0 **GLY** 424 33.463 62.534 49.687 1.00 22.19 0 Α 3228 **ATOM** N MET 425 60.991 48.173 1.00 22.44 32.848 Α N 3229 CA **ATOM** MET 425 34.161 60.350 48.134 1.00 23.29 C A 58.826 **ATOM** 3230 CB MET 425 34.003 48.056 1.00 24.14 C Α ATOM 3231 CG MET 425 33.548 C 58. 187 49.360 1.00 25.32 MET **ATOM** 3232 SD 425 33.092 56.451 49.179 1.00 29.39 S Α 3233 MET 1.00 27.92

**SUBSTITUTE SHEET (RULE 26)** 

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(Continued)

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ATOM ATOM	3234 3235	C 0	MET MET	425 425	35. 042 34. 836	60. 827 60. 457	46. 986 45. 835	1.00 22.06 1.00 22.61	A A	C 0
ATOM ATOM	3236 3237	N CD	PRO PRO	$\begin{array}{c} 426 \\ 426 \end{array}$	36. 045 36. 386	61. 661 62. 215	47. 292 48. 615	1.00 21.75 1.00 21.34	A	N C
ATOM	3238	CA	PRO	426	36. 951	62. 172	46. 262	1.00 21.34	A A	C
ATOM	3239	CB	PRO	426	37. 943	63. 007	47.062	1.00 20.22	A	č
ATOM	3240	CG	PRO	426	37. 138	63.461	48. 245	1.00 19.61	A	C
ATOM	3241	C	PRO	426	37. 636	61.019	45. 532	1.00 20.63	Α	C
ATOM	3242	0	PRO	426	37. 920	61.107	44. 343	1.00 23.99	A	0
ATOM ATOM	3243 3244	N CA	GLY GLY	427 427	37. 905 38. 552	59. 936 58. 789	46. 252	1.00 19.08	A	N
ATOM	3244	C	GLY	427	37. 601	57. 838	45. 646 44. 941	1.00 18.03 1.00 18.93	A A	C
ATOM	3246	ŏ	GLY	427	37. 965	56. 706	44. 642	1.00 21.55	A	0
ATOM	3247	N	GLY	428	36.378	58. 285	44.684	1.00 18.22	Ä	Ň
ATOM	3248	CA	GLY	428	35.417	57. 446	43. 991	1.00 17.96	Α	C
ATOM	3249	C	GLY	428	35. 208	57. 970	42.583	1.00 18.15	A	C
ATOM ATOM	3250 3251	O N	GLY ARG	428 429	35. 577 34. 619	59. 108 57. 158	42. 289 41. 712	1.00 19.00	A	0
ATOM	3252	CA	ARG	429	34. 389	57. 559	40. 320	1.00 16.78 1.00 17.38	A A	N C
ATOM	3253	CB	ARG	429	35. 595	57. 167	39. 444	1.00 11.38	A	C
ATOM	3254	CG	ARG	429	36.577	58. 292	39. 108	1.00 20.57	Ä	č
ATOM	3255	CD	ARG	429	37. 385	58. 737	40.302	1.00 22.65	Α	C
ATOM	3256	NE	ARG	429	38. 359	59. 769	39. 956	1.00 25.75	A	N
ATOM ATOM	3257 3258	CZ NH1	ARG ARG	429 429	39. 078 38. 927	60. 445	40.852	1.00 26.83	A	C
ATOM	3259	NH2	ARG	429 429	39. 957	60. 204 61. 356	42. 146 40. 456	1.00 26.78 1.00 26.24	A	N N
ATOM	3260	C	ARG	429	33. 134	56. 889	39. 756	1.00 20.24	A A	C
ATOM	3261	0	ARG	429	32.976	55. 675	39. 857	1.00 12.14	Ä	ŏ
ATOM	3262	N	ASN	430	32.256	57.679	39.146	1.00 14.98	A	N
ATOM	3263	CA	ASN	430	31.027	57. 136	38. 586	1.00 17.41	Α	C
ATOM ATOM	3264 3265	CB CG	ASN	430	29.901	57. 216	39. 622	1.00 17.29	Ą	C
ATOM	$\frac{3203}{3266}$	0D1	ASN ASN	430 430	29. 947 29. 607	56. 081 54. 938	40. 620 40. 297	1.00 18.53 1.00 16.68	A	C
ATOM	3267	ND2		430	30. 381	56.386	41.840	1.00 15.65	A A	O N
ATOM	3268	C	ASN	430	30. 564	57. 808	37. 297	1.00 17.98	Ä	Č
ATOM	3269	0	ASN	430	30.849	58.976	37.043	1.00 19.64	Ā	Ŏ
ATOM	3270	N	LEU	431	29. 840	57.053	36. 485	1.00 17.00	Α	N
ATOM	3271	CA	LEU	431	29.314	57. 576	35. 241	1.00 17.70	A	C
ATOM ATOM	$\begin{array}{c} 3272 \\ 3273 \end{array}$	CB CG	LEU LEU	431 431	29. 122 28. 478	56. 442 56. 867	34. 231 32. 913	1.00 15.35 1.00 15.33	A	C
ATOM	3274	CD1		431	29. 340	57.917	32. 230	1.00 13.33	A A	C C
ATOM	3275	CD2		431	28. 296	55. 645	32.018	1.00 17.37	A	C
ATOM	3276	C	LEU	431	27.978	58. 279	35. 491	1.00 19.03	Ä	č
ATOM	3277	0	LEU	431	27. 095	57. 750	36. 172	1.00 17.62	Α	0
ATOM	3278	N CA	TYR	432	27. 840	59.475	34. 933	1.00 20.33	A	N
ATOM ATOM	3279 3280	CA CB	TYR TYR	432 432	26. 620 26. 848	60. 248 61. 442	35. 083 36. 014	1.00 21.23	A	C
ATOM	3281	CG	TYR	432 432	27. 068	61.070	30. 014 37. 464	1.00 22.85 1.00 25.34	A A	C
ATOM	3282	CD1	TYR	432	28. 320	60.646	37. 921	1.00 23.34	A	C
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ATOM	3283	CE1			28. 519	60. 305		1.00 24.97	Α	C
ATOM	3284		TYR		26. 019	61.142		1.00 24.85	Α	C
ATOM	3285		TYR		26. 205	60. 805		1.00 25.31	A	C
ATOM	3286	CZ	TYR		27. 454	60. 388		1.00 25.88	A	C
ATOM	3287	OH	TYR		27. 625	60.054		1.00 25.59	A	0
ATOM	3288	C	TYR		26. 102	60. 743		1.00 21.26	A	C
ATOM	3289	0	TYR		26. 860	60. 870		1.00 21.07	A	0
ATOM	3290	N	LYS	433	24. 802	61.022	33. 695	1.00 20.78	A	N
ATOM	3291	CA	LYS	433	24. 133	61.505	32. 496	1.00 20.98	A	C
ATOM	3292	CB	LYS	433	23. 290	60. 386		1.00 21.14	A	C
ATOM	3293	CG	LYS	433	22. 564	60. 827	30.618	1.00 25.64	A	C
ATOM	3294	CD	LYS	433	21.843	59. 701	29.907	1.00 25.30	A	C
ATOM ATOM	3295 3296	CE	LYS	433	20. 643	59. 235	30.682	1.00 25.25	A	C
ATOM	3297	NZ	LYS	433	19.801	58. 370		1.00 27.99	A	N
ATOM	3298	C 0	LYS LYS	433	23. 228	62.687		1.00 20.46	A	C
ATOM	3299	N	ILE	433 434	22. 367 23. 427	62. 587		1.00 21.41	A	0
ATOM	3300	CA	ILE	434 434	22. 591	63.812 64.980	32. 162 32. 417	1.00 20.15 1.00 21.18	A	N
ATOM	3301	CB	ILE	434	23. 427	66. 225	32. 815	1.00 21.18	A	C
ATOM	3302		ILE	434	24. 412	66. 582	31.715	1.00 21.31	A	C
ATOM	3303		ILE	434	22. 491	67. 404		1.00 22.39	A	C
ATOM	3304		ILE	434	23. 171	68. 591	33. 699	1.00 23.38	A A	C C
ATOM	3305	C	ILE	434	21. 782	65. 297	31. 174	1.00 20.81	A	C
ATOM	3306	ŏ	ILE	434	22. 274	65. 154	30.056	1.00 20.81	A	0
ATOM	3307	Ň	GLN	435	20. 538	65. 716	31.372	1.00 21.10	A	N N
ATOM	3308	CA	GLN	435	19.666	66. 034	30. 248	1.00 23.73	A	C
ATOM	3309	CB	GLN	435	18. 202	65.851	30. 646	1.00 26.08	A	C
ATOM	3310	CG	GLN	435	17. 227	66.030	29. 496	1.00 29.99	A	Č
ATOM	3311	CD	GLN	435	15. 802	65.806	29. 929	1.00 32.10	A	č
ATOM	3312		GLN	435	15.446	64.720	30. 372	1.00 34.41	Ä	ŏ
ATOM	3313		GLN	435	14.978	66.839	29.819	1.00 34.05	Ä	Ň
ATOM	3314	C	GLN	435	19.891	67.450	29.743	1.00 22.81	Ä	Č
ATOM	3315	0	GLN	435	19.600	68.419	30.434	1.00 22.20	A	Ŏ
ATOM	3316	N	LEU	436	20. 401	67.564	28.524	1.00 23.57	Ā	Ň
ATOM	3317	CA	LEU	436	20.679	68.865	27. 951	1.00 24.55	Α	C
ATOM	3318	CB	LEU	436	21. 152	68.714	26.508	1.00 21.18	Α	С
ATOM	3319		LEU	436	22. 456	67. 939	26. 332	1.00 21.36	Α	C
ATOM	3320		LEU	436	22.938	68. 116	24.910	1.00 20.02	Α	C
ATOM	3321		LEU	436	23. 510	68. 437	27. 317	1.00 19.70	Α	C
ATOM	3322	C	LEU	436	19. 491	69.812	28. 020	1.00 26.85	Α	C
ATOM	3323	0	LEU	436	19.672	71.016	28. 168	1.00 28.66	Α	0
ATOM	3324	N	SER	437	18. 280	69. 268	27. 927	1.00 30.22	A	N
ATOM	3325	CA	SER	437	17.059	70.075	27. 977	1.00 32.38	A	C
ATOM	3326	CB	SER	437	15. 925	69. 340	27. 268	1.00 32.98	A	C
ATOM	3327 3328	OG C	SER SER	437	16.241	69. 151	25. 901	1.00 39.22	A	0
ATOM ATOM	3329	C 0	SER	437 437	16.610	70. 437	29. 394	1.00 33.81	A	C
ATOM	3330	N	ASP	438	15. 805 17. 124	71.352	29. 577	1.00 32.20	A	0
ATOM	3331		ASP	438 438	16.772	69. 714 69. 955	30. 387	1.00 35.36	A	N
VION	0001	υn	1101	400	10.114	ua. უეე	31. 784	1.00 36.00	Α	С

		FIG. 4-69	(Continued)
ATOM 3335 OI ATOM 3336 C ATOM 3337 O ATOM 3338 N ATOM 3339 CA ATOM 3340 CE ATOM 3341 CC ATOM 3342 CE ATOM 3343 CE ATOM 3344 CE	G ASP 438 D1 ASP 438 D2 ASP 438 ASP 438 ASP 438 ASP 438 ASP 439 A TYR 439 B TYR 439 D1 TYR 439 D1 TYR 439 D2 TYR 439 D2 TYR 439 TYR 440 A THR 440 B THR 440 B THR 440 B THR 440	F I G. 4 - 6 9  15. 468 69. 226 32. 123 1. 00 38. 49 14. 996 69. 498 33. 543 1. 00 41. 58 15. 820 69. 415 34. 480 1. 00 43. 35 13. 796 69. 785 33. 725 1. 00 43. 71 17. 904 69. 470 32. 700 1. 00 35. 28 18. 019 68. 274 32. 993 1. 00 33. 70 18. 723 70. 412 33. 158 1. 00 34. 27 19. 862 70. 105 34. 013 1. 00 33. 69 20. 740 71. 343 34. 175 1. 00 32. 29 21. 262 71. 886 32. 867 1. 00 30. 75 21. 565 71. 028 31. 810 1. 00 30. 00 22. 071 71. 516 30. 611 1. 00 28. 65 21. 480 73. 253 32. 691 1. 00 28. 95 21. 987 73. 749 31. 496 1. 00 27. 97 22. 281 72. 875 30. 462 1. 00 27. 72 22. 803 73. 350 29. 284 1. 00 28. 72 19. 543 69. 538 35. 390 1. 00 33. 49 18. 285 69. 612 35. 806 1. 00 34. 13 17. 917 69. 076 37. 115 1. 00 34. 14 16. 561 69. 624 37. 609 1. 00 33. 49 15. 507 69. 114 36. 780 1. 00 32. 29 16. 559 71. 144 37. 571 1. 00 30. 29 17. 794 67. 572 36. 953 1. 00 33. 89 17. 684 66. 829 37. 929 1. 00 35. 16	A C A C A C A C A C A C A C A C A C A C
ATOM 3356 O ATOM 3357 N ATOM 3358 CA ATOM 3359 CB ATOM 3360 CG ATOM 3361 CD ATOM 3362 CE ATOM 3363 NZ ATOM 3364 C ATOM 3365 O ATOM 3366 N ATOM 3367 CA ATOM 3368 CB ATOM 3369 CG ATOM 3370 CG ATOM 3371 C ATOM 3371 C ATOM 3372 O ATOM 3373 N ATOM 3374 CA ATOM 3375 CB ATOM 3376 OG	THR 440 LYS 441 A LYS 441 B LYS 441 C LYS 441 C LYS 441 LYS 442 VAL 442 VAL 442 VAL 442 VAL 442 VAL 442 THR 443 THR 443 THR 443	17. 794       67. 572       36. 953       1. 00       33. 89         17. 684       66. 829       37. 929       1. 00       35. 16         17. 808       67. 141       35. 697       1. 00       32. 21         17. 703       65. 735       35. 362       1. 00       30. 32         16. 871       65. 573       34. 088       1. 00       33. 16         15. 369       65. 490       34. 331       1. 00       36. 13         14. 848       66. 671       35. 122       1. 00       39. 11         13. 447       66. 392       35. 649       1. 00       41. 94         12. 953       67. 501       36. 517       1. 00       44. 46         19. 089       65. 119       35. 179       1. 00       28. 77         19. 668       65. 159       34. 088       1. 00       28. 32         19. 618       64. 564       36. 263       1. 00       24. 37         21. 960       64. 717       37. 091       1. 00       24. 82         23. 266       63. 936       37. 178       1. 00       22. 99         22. 216       66. 084       36. 469       1. 00       23. 65         20. 786       62. 525       36.	A C A O A C A C A C A C A C A C A C A C

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					$\mathbf{F}_{\cdot}\mathbf{I}$	G. 4	- 70			
4 most	0001		OVO	444	92 001	EO 104	37. 747	1.00 24.13	Α	С
ATOM	3381	CA	CYS	444	23. 981 23. 758	58. 104 56. 712	37. 147	1.00 24.13	A	Č
ATOM	3382	C	CYS	444	23. 136	55. 990	37. 573	1.00 21.72	A	ŏ
ATOM	3383	0 CB	CYS CYS	444 444	24. 396	58. 018	39. 219	1.00 25.50	A	Č
ATOM	3384	CB		444 444	26.053	57. 282	39. 443	1.00 30.81	A	Š
ATOM	3385	SG	CYS	444 445	24. 573	56. 348	36. 175	1.00 22.64	A	N
ATOM	3386	N	LEU LEU	445 445	24. 446	55.053	35. 513	1.00 22.51	A	Ċ
ATOM	3387	CA CB	LEU	445 445	24. 799	55. 211	34. 035	1.00 19.29	A	č
ATOM	3388 3389	CG	LEU	445	24. 049	56. 349	33. 341	1.00 19.36	A	č
ATOM ATOM	3390		LEU	445	24. 588	56. 552	31. 934	1.00 16.01	A	Č
ATOM	3391		LEU	445	22. 559	56.034	33. 319	1.00 15.72	A	Č
ATOM	3392	CDZ	LEU	445	25. 308	53. 940	36. 118	1.00 23.32	A	Č
ATOM	3393	Õ	LEU	445	25. 203	52. 783	35. 718	1.00 24.58	A	0
ATOM	3394	N	SER	446	26. 148	54. 274	37. 087	1.00 23.95	Ā	N
ATOM	3395	CA	SER	446	27. 028	53. 269	37.660	1.00 23.89	Ã	C
ATOM	3396	CB	SER	446	28. 469	53. 555	37. 222	1.00 21.87	Ā	Č
ATOM	3397	OG	SER	446	28. 882	54.847	37.648	1.00 20.09	A	0
ATOM	3398	Č	SER	446	26.969	53.145	39. 175	1.00 23.77	Α	С
ATOM	3399	ŏ	SER	446	27. 361	52.119	39.720	1.00 24.69	Α	0
ATOM	3400	Ň	CYS	447	26.480	54.184	39.845	1.00 24.32	Α	N
ATOM	3401	ĊA	CYS	447	26.382	54.207	41.309	1.00 26.45	Α	
ATOM	3402	C	CYS	447	25.836	52.946	41.997	1.00 25.99	Α	C C
ATOM	3403	Ō	CYS	447	26.441	52.425	42.937	1.00 24.44	Α	0
ATOM	3404	CB	CYS	447	25. 518	55.396	41.763	1.00 27.33	Α	C S
ATOM	3405	SG	CYS	447	26. 225	57.049	41.461	1.00 34.75	Α	
ATOM	3406	N	GLU	448	24. 696	52.456	41.528	1.00 25.90	Α	N
ATOM	3407	CA	GLU	448	24.056	51.317	42.167	1.00 24.38	Α	С
ATOM	3408	CB	GLU	448	22. 581	51.637	42. 334	1.00 23.47	Α	C
ATOM	3409	CG	GLU	448	22. 332	53.075	42.721	1.00 24.60	A	Č
ATOM	3410	CD	GLU	448	22.848	53.416	44. 108	1.00 27.44	A	C
ATOM	3411	0E1		448	22.617	54. 562	44. 559	1.00 29.17	A	0
ATOM	3412		GLU	448	23. 478	52. 548	44. 751	1.00 28.81	A	0
ATOM	3413	C	GLU	448	24. 201	49.941	41.537	1.00 23.54	A	C
ATOM	3414	0	GLU	448	23. 722	48. 970	42.104	1.00 22.25	A	0
ATOM	3415	Ŋ	LEU	449	24. 844	49.844	40.377	1.00 23.78	A	N
ATOM	3416	CA	LEU	449	25. 024	48. 547	39.717	1.00 23.34	A	C
ATOM	3417	CB	LEU	449	25. 988	48. 678	38. 548	1.00 20.76	A	C
ATOM	3418	CG	LEU	449	25.680	49.712	37. 472	1.00 21.20	A	C C
ATOM	3419		LEU	449	26.872	49.807	36. 543 36. 711	1.00 20.05 1.00 17.29	A A	C
ATOM	3420		LEU	449	24. 424	49. 335 47. 456	40.654	1.00 17.29	A	C
ATOM	3421	C	LEU	449	25. 551 25. 157	46. 298	40. 549	1.00 24.01	A	0
ATOM ATOM	3422 3423	O N	LEU ASN	449 450	26. 445	47. 830	40. 543	1.00 25.89	A	N
ATOM	3424	CA	ASN	450 450	27. 040	46.889	42. 512	1.00 27.02	A	Č
ATOM	3425	CB	ASN	450	27. 939	45. 913	41.754	1.00 27.02	A	č
ATOM	3426	CG	ASN	450	28. 296	44. 695	42. 572	1.00 31.61	A	č
ATOM	3427		ASN	450	28. 521	44. 786	43. 783	1.00 34.65	A	Ö
ATOM	3428		ASN	450	28. 363	43. 541	41.912	1.00 31.27	A	N
ATOM	3429	C	ASN	450	27.877	47.731	43.488	1.00 26.54	Α	C
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					FΙ	G. 4	- 71			(Communa)
ATOM	3430	0	ASN	450	29. 099	47. 637	43. 523	1.00 26.25	٨	0
ATOM	3431	N	PRO	450 451	27. 210	48. 558	44. 303	1.00 20.23	A	0 N
ATOM	3432	CD	PRO	451	25. 762	48. 411	44. 535	1.00 27.04	A	N C
ATOM	3433	CA	PRO	451 451	27. 796	49. 465	45. 296	1.00 27.72	A	C
ATOM	3434	CB	PRO	451 451	26. 579	49. 924	46. 103	1.00 27.49	A	C
ATOM		CG	PRO	451 451	25. 638	49. 924	45. 989	1.00 27.21	A	C
ATOM	3435 3436		PRO	451 451	28. 938	48. 983	46. 187	1.00 28.75	A	C
		C				49. 737			A	C
ATOM	3437	0	PRO	451	29. 877 28. 873		46. 433	1.00 30.69	A	0
ATOM	3438	N	GLU	452		47. 746	46.666	1.00 29.54	A	N C
ATOM	3439	CA	GLU	452	29. 918	47. 228	47. 545	1.00 30.30	A	C
ATOM	3440	CB	GLU	452	29.453	45. 937	48. 232	1.00 33.99	A	C
ATOM	3441	CG	GLU	452	28. 085	46. 024	48. 890	1.00 39.92	A	C
ATOM	3442	CD	GLU	452	27. 817	44. 848	49. 813	1.00 45.87	A	C
ATOM	3443	0E1		452	28. 084	43. 693	49. 402	1.00 47.97	A	0
ATOM	3444	OE2		452	27. 336	45. 076	50. 948	1.00 47.68	A	0
ATOM	3445	C	GLU	452	31. 221	46.946	46.816	1.00 29.63	A	C
ATOM	3446	0	GLU	452	32. 308	47. 199	47. 344	1.00 30.27	A	0
ATOM	3447	N	ARG	453	31.099	46. 425	45. 600	1.00 27.01	Α.	N
ATOM	3448	CA	ARG	453	32. 244	46.057	44. 783	1.00 24.90	Ą	C
ATOM	3449	CB	ARG	453	31.950	44. 728	44. 085	1.00 23.08	A	C
ATOM	3450	CG	ARG	453	32.952	44. 337	43.018	1.00 22.92	A	C
ATOM	3451	CD	ARG	453	32.602	42.995	42. 381	1.00 20.49	A	C
ATOM	3452	NE	ARG	453	33. 504	42.688	41. 278	1.00 18.31	A	N
ATOM	3453	CZ	ARG	453	33. 439	41.595	40. 531	1.00 18.93	A	C
ATOM	3454	NH1	ARG	453	32.510	40.679	40. 763	1.00 19.77	A	N
ATOM	3455	NH2	ARG	453	34. 302	41.425	39. 539	1.00 18.87	A	N
ATOM	3456	C	ARG	453	32.695	47.071	43. 738	1.00 25.72	Ą	C
MOTA	3457	0	ARG	453	33. 809	46. 962	43. 222	1.00 24.32	A	0
ATOM	3458	N	CYS	454	31.857	48.054	43. 420	1.00 25.94	A	N
ATOM	3459	CA	CYS	454	32. 233	49.012	42. 385	1.00 25.49	A	C
ATOM	3460	C	CYS	454	32.038	50. 473	42.699	1.00 24.24	A	C
ATOM	3461	0	CYS	454	30. 922	50.970	42.688	1.00 26.79	A	0
ATOM	3462	CB	CYS	454	31.503	48.664	41.096	1.00 26.13	A	C
ATOM	3463	SG	CYS	454	32. 156	47.128	40. 401	1. 00 30. 12	A	S
ATOM	3464	N	GLN	455	33. 143	51.165	42. 942	1.00 22.97	A	N
ATOM	3465	CA	GLN	455	33. 105	52.576	43. 276	1.00 23.69	A	C
ATOM	3466	CB	GLN	455	33. 536	52.761	44. 736	1.00 23.41	A	C
ATOM	3467	CG	GLN	455	32. 564	52. 187	45. 761	1.00 24.96	A	C
ATOM	3468	CD	GLN	455	33. 177	52.065	47. 150	1.00 29.34	A	C
ATOM	3469	OE1	GLN	455	33. 981	52.907	47. 574	1.00 30.98	A	0
ATOM	3470	NE2	GLN	455	32. 790	51.022	47.872	1.00 28.59	A	N
ATOM	3471	C	GLN	455	33. 992	53. 425	42.360	1.00 24.57	A	C
ATOM	3472	0 N	GLN	455	33. 837	54.645	42. 294	1.00 27.40	A	0
ATOM	3473	N CA	TYR	456	34. 919	52. 787	41.654	1.00 22.57	A	N
ATOM	3474	CA	TYR	456	35. 821	53.510	40. 763	1.00 21.75	A	C
ATOM	3475	CB	TYR	456	37. 270	53.187	41. 124	1.00 20.47	A	C
ATOM	3476 3477	CD1	TYR	456	38. 267	54. 282	40.817	1.00 21.27	A	C
ATOM	3477 3479	CD1	TYR	456	38. 659	55.193	41.808	1.00 20.27	A	C
ATOM	3478	CE1	111	456	39.618	56.165	41.548	1.00 18.67	Α	С

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					FΙ	G. 4	- 72			(Continued)
ATOM	3479		2 TYR	456	38. 858	54. 385	39. 552	1.00 19.29	A	C
ATOM ATOM	3480 3481	CE	2 TYR TYR	456	39.812	55. 353		1.00 16.18	A	C
ATOM	3482	OH	TYR	456 456	40. 190 41. 151	56. 236 57. 183	40. 283 40. 023	1.00 18.92	A	C
ATOM	3483	C	TYR	456	35. 536	53. 061	39. 335	1.00 19.64 1.00 21.96	A	0
ATOM	3484	ŏ	TYR	456	35. 944	51. 972	38. 931	1.00 21.96	A	C
ATOM	3485	N	TYR	457	34. 846	53. 899	38. 567	1.00 22.39	A	0 N
ATOM	3486	CA	TYR	457	34. 499	53. 540	37. 196	1.00 22.09	A	N.
ATOM	3487	CB	TYR	457	33. 001	53. 717	36. 956	1.00 20.82	A	C
ATOM	3488	CG	TYR	457	32. 147	52.613	37. 512	1.00 17.51	A A	C C
ATOM	3489		TYR	457	31.644	52.674	38. 811	1.00 13.30	A	Č
ATOM	3490		TYR	457	30. 830	51.668	39. 311	1.00 12.43	A	č
ATOM	3491		2 TYR	457	31.819	51.512	36. 727	1.00 16.86	A	č
ATOM	3492		? TYR	457	31.008	50.497	37. 219	1.00 15.29	A	Č
ATOM	3493	CZ	TYR	457	30.518	50. 582	38. 507	1.00 14.49	Ä	č
ATOM	3494	OH	TYR	457	29. 728	49.568	38. 985	1.00 15.62	A	Ŏ
ATOM	3495	С	TYR	457	35. 232	54. 240	36.066	1.00 21.27	Ā	Č
ATOM	3496	0	TYR	457	35. 842	55. 293	36.227	1.00 23.18	Ā	0
ATOM	3497	N	SER	458	35. 132	53.622	34. 901	1.00 21.68	Α	N
ATOM	3498	CA	SER	458	35. 739	54. 108	33. 683	1.00 21.74	Α	C
ATOM	3499	CB	SER	458	37. 083	53. 429	33. 474	1.00 23.93	Α	C
ATOM	3500	OG	SER	458	37. 510	53. 569	32. 141	1.00 29.63	Α	0
ATOM	3501	C	SER	458	34. 751	53.664	32. 621	1.00 21.73	Α	C
ATOM	3502	0	SER	458	34. 072	52.652	32.804	1.00 20.08	Α	0
ATOM	3503	N	VAL	459	34.665	54. 405	31.520	1.00 20.58	A	N
ATOM	3504	CA	VAL	459	33. 722	54.061	30. 468	1.00 19.99	Α	C
ATOM	3505	CB	VAL	459	32. 457	54. 949	30. 568	1.00 19.45	Α	C
ATOM ATOM	3506 3507		VAL VAL	459	32.816	56. 392	30. 308	1.00 19.10	A	C
ATOM	3508	C		459 450	31.397	54. 475	29. 595	1.00 20.30	A	Č
ATOM	3509	0	VAL VAL	459 450	34. 309	54. 161	29.059	1.00 19.99	A	C
ATOM	3510	N	SER	459 460	35. 314	54. 835	28. 831	1.00 21.13	A	0
ATOM	3511	CA	SER	460	33. 667 34. 083	53. 472 53. 456	28. 122 26. 728	1.00 18.73	A	N
ATOM	3512	CB	SER	460	34. 970	52. 230	26. 476	1.00 16.25	A	C
ATOM	3513	OG	SER	460	35. 476	52. 194	25. 151	1.00 16.33 1.00 15.85	A	C
ATOM	3514	Č	SER	460	32. 809	53. 377	25. 883	1.00 15.85	A	0
ATOM	3515	Ö	SER	460		52. 342	25.841	1.00 13.10	A A	C 0
ATOM	3516	Ň	PHE	461		54. 475	25. 226	1.00 14.01	A	N N
ATOM	3517	CA	PHE	461		54. 512	24. 398	1.00 16.27	A	C
ATOM	3518	CB	PHE	461		55. 921	24. 367	1.00 15.50	Ä	Č
ATOM	3519	CG	PHE	461		56. 351	25.660	1.00 15.11	A	č
ATOM	3520	CD1	PHE	461		56.764	26.735	1.00 14.16	Ä	č
ATOM	3521	CD2	PHE	461		56. 340	25.804	1.00 14.86	A	č
ATOM	3522		PHE	461	30.190	57. 158	27.931	1.00 12.94	Ä	č
ATOM	3523		PHE	461		56. 733	26.996	1.00 12.76	Ä	Č
ATOM	3524	CZ	PHE	461		57. 142	28.061	1.00 11.01	A	Č
ATOM	3525	C	PHE	461		54. 102		1.00 17.94	Α	Č
ATOM	3526	0	PHE	461		54. 234		1.00 17.07	Α	0
ATOM	3527	N	SER	462	30. 532	53.612	22. 269	1.00 19.22	Α	N

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ATOM 3528 CA SER 462 30.694 53.212 20.877 1.00 23.70 A C ATOM 3529 CB SER 462 29.494 52.381 20.399 1.00 23.50 A C ATOM 3530 OG SER 462 28.308 53.145 20.397 1.00 24.06 A O ATOM 3531 C SER 462 30.804 54.496 20.058 1.00 24.95 A C ATOM 3532 O SER 462 30.572 55.581 20.577 1.00 25.95 A O ATOM 3532 O SER 462 30.572 55.581 20.577 1.00 25.95 A O ATOM 3533 N LYS 463 31.153 54.373 18.784 1.00 27.50 A N ATOM 3534 CA LYS 463 31.587 55.084 16.484 1.00 33.43 A C C ATOM 3535 CB LYS 463 31.587 55.084 16.484 1.00 33.43 A C C ATOM 3537 CD LYS 463 33.047 55.199 16.075 1.00 35.54 A C ATOM 3538 CE LYS 463 33.972 54.485 17.007 1.00 36.78 A C ATOM 3539 NZ LYS 463 35.433 54.724 16.673 1.00 39.20 A C ATOM 3539 NZ LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.23 A N ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.23 A N ATOM 3540 C LYS 463 30.246 56.602 17.934 1.00 33.23 A N ATOM 3540 C LYS 463 30.484 57.745 17.561 1.00 36.36 A O ATOM 3542 N GLU 464 29.015 56.524 18.354 1.00 33.23 A N ATOM 3540 C LYS 463 30.484 57.745 17.561 1.00 34.54 A C ATOM 3540 C LYS 463 30.484 57.745 17.561 1.00 34.54 A C ATOM 3540 CB GLU 464 29.015 56.524 18.354 1.00 33.23 A N ATOM 3543 CC GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3542 N GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3545 CG GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3547 CB GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3547 CB GLU 464 26.960 57.058 17.256 1.00 50.39 A O ATOM 3549 C GLU 464 27.945 57.247 18.410 1.00 32.03 A N ATOM 3540 CB GLU 464 26.960 57.058 17.256 1.00 50.39 A O ATOM 3547 CB GLU 464 26.967 56.201 13.926 1.00 50.99 A O ATOM 3540 CB GLU 464 26.967 56.201 13.926 1.00 50.99 A O ATOM 3540 CB GLU 464 26.967 56.201 13.926 1.00 50.99 A O ATOM 3551 N ALA 465 27.268 57.366 15.882 1.00 44.96 A C ATOM 3550 CB GLU 464 26.967 56.201 13.926 1.00 50.99 A O ATOM 3550 CB GLU 464 26.967 56.201 13.926 1.00 50.99 A O ATOM 3550 CB GLU 464 26.967 56.201 13.926 1.00 50.99 A O ATOM						ז כו	C 1	7 9			(Continued)
ATOM 3529 CB SER 462						r ı	G. 4	- / 3			
ATOM 3529 CB SER 462	ATOM	3528	CA	SER	462	30.694	53. 212	20.877	1.00 23.70	Α	С
ATOM 3530 OG SER 462 28.308 53.145 20.397 1.00 24.06 A O ATOM 3531 C SER 462 30.804 54.496 20.058 1.00 24.95 A C ATOM 3533 N LYS 463 31.153 54.373 18.784 1.00 27.50 A N ATOM 3533 N LYS 463 31.153 54.373 18.784 1.00 27.50 A N ATOM 3535 CB LYS 463 31.323 55.536 17.920 1.00 31.80 A C ATOM 3535 CB LYS 463 31.587 55.084 16.484 1.00 33.43 A C ATOM 3535 CB LYS 463 33.947 55.199 16.075 1.00 35.54 A C ATOM 3538 CE LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3539 NZ LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3539 NZ LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3539 NZ LYS 463 33.947 55.199 16.075 1.00 39.20 A C ATOM 3539 NZ LYS 463 30.266 56.602 17.934 1.00 39.20 A C ATOM 3540 C LYS 463 30.266 56.602 17.934 1.00 33.39 A C ATOM 3541 O LYS 463 30.246 57.745 17.561 1.00 36.36 A O ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3544 CB GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3545 CG GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3546 CD GLU 464 26.967 57.058 17.256 1.00 39.82 A C ATOM 3545 CG GLU 464 27.952 57.366 15.882 1.00 44.96 A C ATOM 3548 OB2 GLU 464 27.952 57.366 15.882 1.00 44.96 A C ATOM 3549 C GLU 464 26.967 56.120 13.926 1.00 50.39 A O ATOM 3549 C GLU 464 27.865 57.247 18.410 1.00 32.03 A O ATOM 3549 C GLU 464 27.865 57.856.961 14.772 1.00 48.72 A C ATOM 3555 CB ALA 465 27.823 56.636 20.748 1.00 32.03 A O ATOM 3555 CB ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3555 CB ALA 465 26.889 57.935 22.577 1.00 28.86 A C ATOM 3555 CB ALA 465 26.889 57.935 22.577 1.00 28.86 A C ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 29.47 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 29.97 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 29.97 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 29.97 A C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.99 A O A C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.99 A O A C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.99 A C C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.99 A C C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.						29. 494	52.381	20.399	1.00 23.50		
ATOM 3531 C SER 462 30.804 54.496 20.058 1.00 24.95 A C ATOM 3532 O SER 462 30.572 55.581 20.577 1.00 25.95 A O ATOM 3533 N LYS 463 31.153 54.373 18.784 1.00 27.50 A N ATOM 3534 CA LYS 463 31.323 55.536 17.920 1.00 31.80 A C ATOM 3535 CB LYS 463 31.587 55.084 16.484 1.00 33.43 A C ATOM 3536 CG LYS 463 33.947 55.199 16.075 1.00 35.54 A C ATOM 3537 CD LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3538 CE LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3538 CE LYS 463 36.384 54.098 17.641 1.00 40.26 A N ATOM 3530 NZ LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3541 O LYS 463 30.484 57.745 17.561 1.00 36.36 A O ATOM 3540 C LYS 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3544 CB GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3544 CB GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3546 CD GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3546 CD GLU 464 27.528 57.366 15.882 1.00 44.96 A C ATOM 3548 CG GLU 464 27.528 57.366 15.882 1.00 44.96 A C ATOM 3549 C GLU 464 26.960 57.058 17.256 1.00 39.82 A C ATOM 3549 C GLU 464 26.967 56.10 13.926 1.00 50.39 A O ATOM 3549 C GLU 464 26.967 56.10 13.926 1.00 50.39 A O ATOM 3549 C GLU 464 27.528 57.366 15.882 1.00 44.96 A C ATOM 3549 C GLU 464 27.528 57.366 15.882 1.00 44.96 A C ATOM 3549 C GLU 464 26.967 56.10 13.926 1.00 50.39 A O ATOM 3540 CB GLU 464 26.967 56.10 13.926 1.00 50.59 A O ATOM 3550 C GLU 464 27.528 57.366 15.882 1.00 48.96 A C ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3552 CA ALA 465 26.889 57.935 22.577 1.00 28.86 A C ATOM 3555 CB ALA 465 26.895 57.935 22.577 1.00 28.89 A N ATOM 3555 CB ALA 465 26.895 57.935 22.577 1.00 28.89 A N ATOM 3557 CA LYS 466 24.585 53.122 19.899 1.00 30.998 A C C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.998 A C C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.77 A C C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.998 A C C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.908 A C C									1.00 24.06		
ATOM 3533 N LYS 463 31.153 54.373 18.784 1.00 27.50 A N ATOM 3534 CA LYS 463 31.323 55.536 17.920 1.00 31.80 A C ATOM 3535 CB LYS 463 31.587 55.084 16.484 1.00 33.43 A C ATOM 3536 CG LYS 463 33.047 55.199 16.075 1.00 35.54 A C ATOM 3537 CD LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3538 CE LYS 463 35.433 54.724 16.673 1.00 39.20 A C ATOM 3539 NZ LYS 463 36.384 54.098 17.641 1.00 40.26 A N ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3541 O LYS 463 30.484 57.745 17.561 1.00 36.36 A O ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3544 CB GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3545 CG GLU 464 27.528 57.366 15.882 1.00 44.966 A C ATOM 3547 OE1 GLU 464 26.578 56.961 14.772 1.00 48.72 A C ATOM 3548 OE2 GLU 464 26.578 56.961 14.772 1.00 48.72 A C ATOM 3549 C GLU 464 25.439 57.480 14.752 1.00 48.72 A C ATOM 3550 O GLU 464 26.967 56.120 13.926 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 32.03 A O ATOM 3553 CB ALA 465 27.823 56.636 20.748 1.00 32.03 A O ATOM 3552 CA ALA 465 27.823 56.636 20.748 1.00 32.03 A O ATOM 3553 CB ALA 465 26.889 57.935 22.577 1.00 28.86 A C ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 32.93 A C C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.89 A N A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 30.98 A C C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 30.98 A C C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 30.98 A C C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.98 A C C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.98 A C C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.98 A C C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 31.77 A C C ATOM 3559 CG LYS 466		3531	С	SER	462	30.804	54. 496	20.058	1.00 24.95	Α	C
ATOM 3534 CA LYS 463 31.323 55.536 17.920 1.00 31.80 A C ATOM 3535 CB LYS 463 31.587 55.084 16.484 1.00 33.43 A C ATOM 3536 CG LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3537 CD LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3538 CE LYS 463 35.433 54.724 16.673 1.00 39.20 A C ATOM 3539 NZ LYS 463 36.384 54.098 17.641 1.00 40.26 A N ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3541 O LYS 463 30.484 57.745 17.561 1.00 36.36 A O ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3543 CA GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3545 CG GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3546 CD GLU 464 26.960 57.058 17.256 1.00 39.82 A C ATOM 3547 OE1 GLU 464 26.960 57.058 17.256 1.00 39.82 A C ATOM 3547 OE1 GLU 464 26.960 57.058 17.256 1.00 39.82 A C ATOM 3547 OE1 GLU 464 26.967 56.120 13.926 1.00 50.39 A O ATOM 3548 OE2 GLU 464 26.967 56.120 13.926 1.00 50.39 A O ATOM 3549 C GLU 464 27.186 57.202 19.729 1.00 32.77 A C ATOM 3550 O GLU 464 27.186 57.202 19.729 1.00 32.77 A C ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3551 CB ALA 465 27.823 56.636 20.748 1.00 29.63 A C ATOM 3552 CA ALA 465 27.823 56.636 20.748 1.00 29.63 A C ATOM 3555 CB ALA 465 26.889 57.935 22.577 1.00 28.86 A C ATOM 3557 CA LYS 466 25.105 55.645 22.164 1.00 29.47 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.87 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.87 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.87 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.87 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 38.87 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 31.77 A C		3532	0	SER	462	30.572	55. 581	20. 577	1.00 25.95	Α	0
ATOM 3535 CB LYS 463 31.587 55.084 16.484 1.00 33.43 A C ATOM 3536 CG LYS 463 33.047 55.199 16.075 1.00 35.54 A C ATOM 3537 CD LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3538 CE LYS 463 35.433 54.724 16.673 1.00 39.20 A C ATOM 3539 NZ LYS 463 36.384 54.098 17.641 1.00 40.26 A N ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3541 0 LYS 463 30.484 57.745 17.561 1.00 36.36 A O ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3543 CA GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3544 CB GLU 464 26.960 57.058 17.256 1.00 34.54 A C ATOM 3545 CG GLU 464 27.528 57.366 15.882 1.00 44.96 A C ATOM 3548 OE2 GLU 464 26.960 57.058 14.772 1.00 48.72 A C ATOM 3548 OE2 GLU 464 26.967 56.120 13.926 1.00 50.39 A O ATOM 3549 C GLU 464 27.186 57.202 19.729 1.00 32.77 A C ATOM 3550 O GLU 464 26.967 56.120 13.926 1.00 50.59 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3553 CB ALA 465 27.823 56.636 20.748 1.00 29.63 A C ATOM 3555 CA ALA 465 27.823 56.636 20.748 1.00 29.47 A C ATOM 3555 CA ALA 465 25.176 55.824 23.042 1.00 28.86 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 31.77 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 31.77 A C	ATOM	3533	N	LYS	463	31.153	54. 373	18.784		Α	N
ATOM 3536 CG LYS 463 33.047 55.199 16.075 1.00 35.54 A C ATOM 3537 CD LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3538 CE LYS 463 35.433 54.724 16.673 1.00 39.20 A C ATOM 3539 NZ LYS 463 36.384 54.098 17.641 1.00 40.26 A N ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3541 0 LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3541 0 LYS 463 30.484 57.745 17.561 1.00 36.36 A O ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3543 CA GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3544 CB GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3545 CG GLU 464 27.528 57.366 15.882 1.00 39.82 A C ATOM 3546 CD GLU 464 26.567 56.601 14.772 1.00 48.72 A C ATOM 3548 0E2 GLU 464 26.960 57.058 14.752 1.00 50.39 A O ATOM 3549 C GLU 464 26.967 56.120 13.926 1.00 50.39 A O ATOM 3550 O GLU 464 27.186 57.202 19.729 1.00 32.77 A C ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 32.03 A C ATOM 3553 CB ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3555 CA ALA 465 26.015 55.645 22.164 1.00 29.47 A C ATOM 3555 CA ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3557 CA LYS 466 25.905 54.678 21.259 1.00 28.86 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 31.77 A C	ATOM	3534	CA	LYS	463	31.323	55. 536	17.920	1.00 31.80	Α	C .
ATOM 3537 CD LYS 463 33.972 54.435 17.007 1.00 36.78 A C ATOM 3538 CE LYS 463 35.433 54.724 16.673 1.00 39.20 A C ATOM 3539 NZ LYS 463 36.384 54.098 17.641 1.00 40.26 A N ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3541 O LYS 463 30.484 57.745 17.561 1.00 36.36 A O ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3543 CA GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3544 CB GLU 464 26.960 57.058 17.256 1.00 39.82 A C ATOM 3545 CG GLU 464 27.528 57.366 15.882 1.00 44.96 A C ATOM 3546 CD GLU 464 26.578 56.961 14.772 1.00 48.72 A C ATOM 3548 0E2 GLU 464 25.439 57.480 14.752 1.00 50.39 A O ATOM 3549 C GLU 464 27.186 57.202 19.729 1.00 32.77 A C ATOM 3550 O GLU 464 26.047 57.659 19.814 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 32.03 A O ATOM 3552 CA ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3555 CB ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 28.66 A O ATOM 3557 CA LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3557 CA LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C	ATOM	3535	CB	LYS	463	31.587	55.084	16.484	1.00 33.43	Α	C
ATOM 3538 CE LYS 463 35.433 54.724 16.673 1.00 39.20 A C ATOM 3539 NZ LYS 463 36.384 54.098 17.641 1.00 40.26 A N ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3541 O LYS 463 30.484 57.745 17.561 1.00 36.36 A O ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3543 CA GLU 464 27.945 57.247 18.410 1.00 34.54 A C C ATOM 3544 CB GLU 464 26.960 57.058 17.256 1.00 39.82 A C C ATOM 3545 CG GLU 464 26.960 57.058 17.256 1.00 39.82 A C C ATOM 3546 CD GLU 464 26.578 56.961 14.772 1.00 44.96 A C ATOM 3548 0E2 GLU 464 26.578 56.961 14.772 1.00 48.72 A C ATOM 3549 C GLU 464 26.967 56.120 13.926 1.00 50.39 A O ATOM 3549 C GLU 464 26.967 56.120 13.926 1.00 50.59 A O ATOM 3550 O GLU 464 26.047 57.659 19.814 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 32.03 A O ATOM 3555 CB ALA 465 27.241 56.546 22.081 1.00 29.63 A C ATOM 3556 N LYS 466 24.763 53.772 21.274 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.89 A N ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 30.98 A C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.98 A C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.98 A C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.98 A C ATOM 3559 CG LYS 466 24.763 53.772 21.274 1.00 30.98 A C ATOM 3559 CG LYS 466 24.763 53.772 21.974 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466	ATOM	3536	CG	LYS	463		55. 199	16.075	1.00 35.54	Α	С
ATOM 3539 NZ LYS 463 36.384 54.098 17.641 1.00 40.26 A N ATOM 3540 C LYS 463 30.226 56.602 17.934 1.00 33.39 A C ATOM 3541 0 LYS 463 30.484 57.745 17.561 1.00 36.36 A 0 ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3543 CA GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3544 CB GLU 464 26.960 57.058 17.256 1.00 39.82 A C ATOM 3545 CG GLU 464 27.528 57.366 15.882 1.00 44.96 A C ATOM 3546 CD GLU 464 26.578 56.961 14.772 1.00 48.72 A C ATOM 3547 0E1 GLU 464 25.439 57.480 14.752 1.00 50.39 A O ATOM 3548 0E2 GLU 464 26.967 56.120 13.926 1.00 50.59 A O ATOM 3549 C GLU 464 27.186 57.202 19.729 1.00 32.77 A C ATOM 3550 O GLU 464 26.047 57.659 19.814 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3553 CB ALA 465 27.241 56.546 22.081 1.00 29.63 A C ATOM 3555 C A ALA 465 26.085 57.935 22.577 1.00 28.36 A C ATOM 3555 C A ALA 465 26.889 57.935 22.577 1.00 28.66 A O ATOM 3557 CA LYS 466 24.763 53.722 19.899 1.00 30.98 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3555 CA LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3555 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3555 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3555 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 31.77 A C	ATOM	3537	CD	LYS	463	33. 972	54. 435	17.007	1.00 36.78	Α	С
ATOM 3540 C LYS 463 30. 226 56. 602 17. 934 1. 00 33. 39 A C ATOM 3541 0 LYS 463 30. 484 57. 745 17. 561 1. 00 36. 36 A 0 ATOM 3542 N GLU 464 29. 015 56. 254 18. 354 1. 00 33. 23 A N ATOM 3543 CA GLU 464 27. 945 57. 247 18. 410 1. 00 34. 54 A C ATOM 3544 CB GLU 464 26. 960 57. 058 17. 256 1. 00 39. 82 A C ATOM 3545 CG GLU 464 27. 528 57. 366 15. 882 1. 00 44. 96 A C ATOM 3546 CD GLU 464 26. 578 56. 961 14. 772 1. 00 48. 72 A C ATOM 3547 0E1 GLU 464 25. 439 57. 480 14. 752 1. 00 50. 39 A O ATOM 3548 0E2 GLU 464 26. 967 56. 120 13. 926 1. 00 50. 59 A O ATOM 3549 C GLU 464 27. 186 57. 202 19. 729 1. 00 32. 77 A C ATOM 3550 O GLU 464 26. 047 57. 659 19. 814 1. 00 32. 03 A O ATOM 3551 N ALA 465 27. 823 56. 566 20. 748 1. 00 31. 17 A N ATOM 3552 CA ALA 465 27. 241 56. 546 22. 081 1. 00 29. 63 A C ATOM 3554 C ALA 465 26. 889 57. 935 22. 577 1. 00 28. 36 A C ATOM 3555 O ALA 465 26. 889 57. 935 22. 577 1. 00 28. 36 A C ATOM 3557 CA LYS 466 25. 905 54. 678 21. 259 1. 00 28. 89 A N ATOM 3557 CA LYS 466 24. 763 53. 772 21. 274 1. 00 28. 97 A C ATOM 3558 CB LYS 466 24. 585 53. 122 19. 899 1. 00 30. 98 A C ATOM 3558 CB LYS 466 24. 585 53. 122 19. 899 1. 00 30. 98 A C ATOM 3559 CG LYS 466 24. 585 53. 122 19. 899 1. 00 30. 98 A C ATOM 3559 CG LYS 466 24. 585 53. 122 19. 899 1. 00 30. 98 A C ATOM 3559 CG LYS 466 24. 585 53. 122 19. 899 1. 00 30. 98 A C ATOM 3559 CG LYS 466 24. 585 53. 122 19. 899 1. 00 30. 98 A C ATOM 3559 CG LYS 466 24. 585 53. 122 19. 899 1. 00 30. 98 A C ATOM 3559 CG LYS 466	ATOM	3538	CE	LYS	463	35. 433	54. 724	16.673	1.00 39.20	Α	C
ATOM 3541 O LYS 463 30.484 57.745 17.561 1.00 36.36 A O ATOM 3542 N GLU 464 29.015 56.254 18.354 1.00 33.23 A N ATOM 3543 CA GLU 464 27.945 57.247 18.410 1.00 34.54 A C ATOM 3545 CG GLU 464 26.960 57.058 17.256 1.00 39.82 A C ATOM 3545 CG GLU 464 26.578 56.961 14.772 1.00 44.96 A C ATOM 3546 CD GLU 464 26.578 56.961 14.772 1.00 48.72 A C ATOM 3548 0E2 GLU 464 25.439 57.480 14.752 1.00 50.39 A O ATOM 3549 C GLU 464 26.967 56.120 13.926 1.00 50.59 A O ATOM 3550 O GLU 464 26.047 57.659 19.814 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3551 N ALA 465 27.241 56.546 22.081 1.00 29.63 A C ATOM 3554 C ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3555 O ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3555 O ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3555 CA LYS 466 24.763 53.772 21.274 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 24.585 53.122 19.899 1.00 31.77 A C		3539	NZ	LYS	463			17.641		Α	N
ATOM         3542         N         GLU         464         29.015         56.254         18.354         1.00         33.23         A         N           ATOM         3543         CA         GLU         464         27.945         57.247         18.410         1.00         34.54         A         C           ATOM         3544         CB         GLU         464         26.960         57.058         17.256         1.00         39.82         A         C           ATOM         3545         CG         GLU         464         27.528         57.366         15.882         1.00         44.96         A         C           ATOM         3546         CD         GLU         464         26.578         56.961         14.772         1.00         48.72         A         C           ATOM         3547         OE1         GLU         464         26.967         56.120         13.926         1.00         50.39         A         O           ATOM         3549         C         GLU         464         26.967         56.120         13.926         1.00         32.77         A         C           ATOM         3550         O         G		3540	C	LYS						Α	C
ATOM       3543       CA       GLU       464       27. 945       57. 247       18. 410       1. 00       34. 54       A       C         ATOM       3544       CB       GLU       464       26. 960       57. 058       17. 256       1. 00       39. 82       A       C         ATOM       3545       CG       GLU       464       27. 528       57. 366       15. 882       1. 00       44. 96       A       C         ATOM       3546       CD       GLU       464       26. 578       56. 961       14. 772       1. 00       48. 72       A       C         ATOM       3547       OE1       GLU       464       25. 439       57. 480       14. 752       1. 00       50. 39       A       O         ATOM       3548       OE2       GLU       464       26. 967       56. 120       13. 926       1. 00       50. 59       A       O         ATOM       3549       C       GLU       464       26. 047       57. 659       19. 814       1. 00       32. 03       A       O         ATOM       3551       N       ALA       465       27. 241       56. 546       22. 081       1. 00       31										Α	
ATOM 3544 CB GLU 464 26.960 57.058 17.256 1.00 39.82 A C ATOM 3545 CG GLU 464 27.528 57.366 15.882 1.00 44.96 A C ATOM 3546 CD GLU 464 26.578 56.961 14.772 1.00 48.72 A C ATOM 3547 OE1 GLU 464 25.439 57.480 14.752 1.00 50.39 A O ATOM 3548 OE2 GLU 464 26.967 56.120 13.926 1.00 50.59 A O ATOM 3549 C GLU 464 27.186 57.202 19.729 1.00 32.77 A C ATOM 3550 O GLU 464 26.047 57.659 19.814 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3552 CA ALA 465 27.241 56.546 22.081 1.00 29.63 A C ATOM 3553 CB ALA 465 26.089 57.935 22.577 1.00 28.36 A C ATOM 3555 O ALA 465 26.015 55.645 22.164 1.00 29.47 A C ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C										Α	
ATOM 3545 CG GLU 464 27.528 57.366 15.882 1.00 44.96 A C ATOM 3546 CD GLU 464 26.578 56.961 14.772 1.00 48.72 A C ATOM 3547 OE1 GLU 464 25.439 57.480 14.752 1.00 50.39 A O ATOM 3548 OE2 GLU 464 26.967 56.120 13.926 1.00 50.59 A O ATOM 3549 C GLU 464 27.186 57.202 19.729 1.00 32.77 A C ATOM 3550 O GLU 464 26.047 57.659 19.814 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3552 CA ALA 465 27.241 56.546 22.081 1.00 29.63 A C ATOM 3553 CB ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3554 C ALA 465 26.015 55.645 22.164 1.00 29.47 A C ATOM 3555 O ALA 465 25.176 55.824 23.042 1.00 28.66 A O ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
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ATOM 3547 OE1 GLU 464 25.439 57.480 14.752 1.00 50.39 A O ATOM 3548 OE2 GLU 464 26.967 56.120 13.926 1.00 50.59 A O ATOM 3549 C GLU 464 27.186 57.202 19.729 1.00 32.77 A C ATOM 3550 O GLU 464 26.047 57.659 19.814 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3552 CA ALA 465 27.241 56.546 22.081 1.00 29.63 A C ATOM 3553 CB ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3554 C ALA 465 26.015 55.645 22.164 1.00 29.47 A C ATOM 3555 O ALA 465 25.176 55.824 23.042 1.00 28.66 A O ATOM 3557 CA LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
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ATOM 3550 O GLU 464 26.047 57.659 19.814 1.00 32.03 A O ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3552 CA ALA 465 27.241 56.546 22.081 1.00 29.63 A C ATOM 3553 CB ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3554 C ALA 465 26.015 55.645 22.164 1.00 29.47 A C ATOM 3555 O ALA 465 25.176 55.824 23.042 1.00 28.66 A O ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
ATOM 3551 N ALA 465 27.823 56.636 20.748 1.00 31.17 A N ATOM 3552 CA ALA 465 27.241 56.546 22.081 1.00 29.63 A C ATOM 3553 CB ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3554 C ALA 465 26.015 55.645 22.164 1.00 29.47 A C ATOM 3555 O ALA 465 25.176 55.824 23.042 1.00 28.66 A O ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
ATOM 3552 CA ALA 465 27. 241 56. 546 22. 081 1. 00 29. 63 A C ATOM 3553 CB ALA 465 26. 889 57. 935 22. 577 1. 00 28. 36 A C ATOM 3554 C ALA 465 26. 015 55. 645 22. 164 1. 00 29. 47 A C ATOM 3555 O ALA 465 25. 176 55. 824 23. 042 1. 00 28. 66 A O ATOM 3556 N LYS 466 25. 905 54. 678 21. 259 1. 00 28. 89 A N ATOM 3557 CA LYS 466 24. 763 53. 772 21. 274 1. 00 28. 97 A C ATOM 3558 CB LYS 466 24. 585 53. 122 19. 899 1. 00 30. 98 A C ATOM 3559 CG LYS 466 23. 208 52. 509 19. 649 1. 00 31. 77 A C											
ATOM 3553 CB ALA 465 26.889 57.935 22.577 1.00 28.36 A C ATOM 3554 C ALA 465 26.015 55.645 22.164 1.00 29.47 A C ATOM 3555 O ALA 465 25.176 55.824 23.042 1.00 28.66 A O ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
ATOM 3554 C ALA 465 26.015 55.645 22.164 1.00 29.47 A C ATOM 3555 O ALA 465 25.176 55.824 23.042 1.00 28.66 A O ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
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ATOM 3556 N LYS 466 25.905 54.678 21.259 1.00 28.89 A N ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
ATOM 3557 CA LYS 466 24.763 53.772 21.274 1.00 28.97 A C ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
ATOM 3558 CB LYS 466 24.585 53.122 19.899 1.00 30.98 A C ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
ATOM 3559 CG LYS 466 23.208 52.509 19.649 1.00 31.77 A C											
ATOM 3560 CD LYS 466 23.045 52.179 18.171 1.00 34.52 A C										_	
ATOM 3561 CE LYS 466 21.632 51.757 17.814 1.00 35.82 A C											
ATOM 3562 NZ LYS 466 21.273 50.441 18.404 1.00 38.42 A N ATOM 3563 C LYS 466 24.987 52.704 22.339 1.00 28.20 A C											
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ATOM 3569 CD1 TYR 467 25.550 49.917 20.903 1.00 29.93 A C ATOM 3570 CE1 TYR 467 24.494 49.373 20.184 1.00 31.13 A C											
ATOM 3571 CD2 TYR 467 25.009 48.522 22.768 1.00 29.73 A C											
ATOM 3572 CE2 TYR 467 23.953 47.975 22.060 1.00 30.29 A C											
ATOM 3573 CZ TYR 467 23.698 48.405 20.770 1.00 30.97 A C											
ATOM 3574 OH TYR 467 22.625 47.890 20.079 1.00 32.01 A 0											
ATOM 3575 C TYR 467 27.777 51.949 24.470 1.00 24.00 A C											
ATOM 3576 0 TYR 467 28.491 52.852 24.064 1.00 24.63 A 0											

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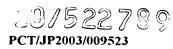
						_				(Continued	<b>(</b> )
					FIG	. 4	-74				
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3577 3578 3579 3580 3581 3582 3583 3584 3585 3586 3587 3588 3589 3590 3591 3592	CE1 CD2 CE2 CZ OH C O N CA CB CG	TYR	468 468 468 468 468 468 468 468 469 469 469	29. 091 5 28. 801 5 27. 588 5 26. 308 5 25. 206 5 27. 734 5 26. 638 5 25. 380 5 24. 304 5 29. 501 5 28. 672 5 30. 800 5 31. 368 4 32. 643 4 33. 460 4	1. 370 1. 765 3. 043 3. 011 3. 214 3. 308 2. 883 2. 971 3. 191 3. 334 0. 675 0. 059 0. 431 9. 429 8. 864 7. 993	25. 641 26. 462 27. 249 28. 155 27. 646 28. 486 29. 537 30. 390 29. 857 30. 695 27. 411 28. 070 27. 449 28. 315 27. 695 28. 632	1.00 23.06 1.00 22.80 1.00 23.88 1.00 24.49 1.00 25.51 1.00 26.39 1.00 25.67 1.00 25.81 1.00 25.95 1.00 21.32 1.00 22.73 1.00 20.26 1.00 19.27 1.00 20.12 1.00 21.72	A A A A A A A A A	N C C C C C C O N C C C C C C C C C C C	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3593 3594 3595 3596 3597 3598 3600 3601 3602 3603 3604	C O N CA CB CG CD1	GLN GLN GLN GLN LEU LEU LEU LEU LEU	469 469 469 469 470 470 470 470 470 470	35. 605 4 35. 322 4 31. 712 5 32. 331 5 31. 277 49 31. 602 5 30. 410 5 29. 442 5 28. 373 5 30. 200 5	7. 845 8. 837 6. 609 0. 158 1. 226 9. 611 0. 203 0. 136 1. 323 1. 132 2. 620 9. 380	28. 169 28. 011 27. 948 29. 589 29. 549 30. 716 32. 002 32. 961 32. 929 33. 996 33. 184 32. 531	1.00 23.85 1.00 25.81 1.00 23.84 1.00 19.50 1.00 19.63 1.00 19.27 1.00 20.27 1.00 20.14 1.00 21.50 1.00 19.33 1.00 19.44 1.00 20.91	A A A A A A A A	C O N C O C C C C C	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3605 3606 3607 3608 3609 3610 3611 3612 3613 3614	C	ARG ARG ARG ARG ARG ARG ARG ARG	470 471 471 471 471 471 471 471 471	32. 785 48 33. 753 50 34. 917 49 36. 137 49 35. 927 49 37. 091 49 36. 939 51 37. 961 52 39. 202 51 37. 747 53 35. 171 49	3. 152 0. 050 0. 344 0. 690 0. 386 0. 871 1. 261 2. 061 1. 606 3. 304 0. 686	32. 409 33. 102 33. 610 32. 748 31. 261 30. 426 30. 005 29. 723 29. 830 29. 321 35. 064	1.00 19.97 1.00 22.57 1.00 25.83 1.00 29.78 1.00 31.73 1.00 35.14 1.00 35.86 1.00 35.39 1.00 37.87 1.00 36.33 1.00 24.89	A A A A A A A	O N C C C N C N N C	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3616 3617 3618 3619 3620 3621 3622 3623 3624 3625	O N CA C O CB SG N CA CB	ARG CYS CYS CYS CYS CYS SER SER SER	471 472 472 472 472 472 472 473 473	34. 794 48 34. 948 48 36. 328 48 36. 738 47 33. 812 48 34. 037 47 37. 049 49 38. 377 48		35. 388 35. 935 37. 373 37. 806 37. 433 38. 059 39. 797 38. 583 39. 022 38. 414	1.00 27.07 1.00 24.59 1.00 25.55 1.00 23.33 1.00 22.34 1.00 26.66 1.00 33.06 1.00 22.51 1.00 23.17 1.00 21.92	A A A A A A A	O N C C O C S N C C	

					ד כד	C 4	7 -			(Continued)
					P I	G. 4	- / 5			
ATOM	3626	0G	SER	473	39.500	50.976	39.071	1.00 23.39	Α	0
ATOM	3627	C	SER	473	38. 557		40.536	1.00 23.29	Α	C
ATOM	3628	0	SER	473	39. 685		41.028	1.00 24.44	Α	0
ATOM	3629	N	GLY	474	37. 457		41.279	1.00 23.29	Α	N
ATOM	3630	CA	GLY	474	37. 573	48.627	42.724	1.00 23.91	Α	С
ATOM	3631	C	GLY	474	36. 330		43. 459	1.00 24.41	Α	C
ATOM	3632	0	GLY	474	35. 434		42.849	1.00 25.28	Α	0
ATOM	3633	N	PR0	475	36. 257		44. 780	1.00 24.58	Α	N
ATOM	3634	CD	PRO	475	35. 174		45.623	1.00 25.74	Α	C
ATOM	3635	CA	PR0	475	37. 280		45.609	1.00 24.00	Α	С
ATOM	3636	CB	PR0	475	36. 887		47.022	1.00 22.53	Α	С
ATOM	3637	CG	PRO	475	35.419		46. 945	1.00 25.59	Α	С
ATOM	3638	C	PR0	475	37. 397		45. 462	1.00 24.86	Α	C
ATOM	3639	0	PRO	475	38. 294		46.044	1.00 26.60	Α	0
ATOM	3640	N	GLY	476	36. 502	46.085	44.691	1.00 24.35	Α	N
ATOM	3641	CA	GLY	476	36. 564		44. 498	1.00 23.50	Α	C
ATOM	3642	C	GLY	476	37. 324		43. 227	1.00 24.87	Α	C
ATOM	3643	0	GLY	476	37. 925	45. 198	42.613	1.00 24.65	Α	0
ATOM	3644	N	LEU	477	37. 308		42.818	1.00 24.78	Α	N
ATOM	3645	CA	LEU	477	38. 003	42.681	41.601	1.00 25.85	A	C
ATOM	3646	CB	LEU	477	37. 927	41.171	41. 383	1.00 26.86	A	C
ATOM	3647	CG	LEU	477	38. 661	40. 296	42. 404	1.00 27.45	A	C
ATOM	3648		LEU	477	38. 626	38. 851	41. 943	1.00 27.65	A	C
ATOM	3649		LEU	477	40. 102	40. 759	42. 556	1.00 27.87	A	C
ATOM	3650	C	LEU	477	37. 369	43. 417	40. 424	1.00 27.45	A	C
ATOM	3651	0	LEU	477	36. 160	43.663	40. 405	1.00 27.68	A	0
ATOM	3652	N	PRO	478 478	38. 183	43. 792	39. 428	1.00 27.18	A	N
ATOM	3653	CD	PRO	478	39. 645	43.637	39. 362	1.00 27.65	A	C
ATOM	3654	CA	PRO	478	37. 684	44. 505	38. 253	1.00 25.83	A	C
ATOM ATOM	3655 3656	CB CG	PRO	478	38. 908	44. 569	37. 351	1.00 27.68	A	C
ATOM	3657	C	PRO PRO	478 478	40. 023	44.676	38. 335	1.00 27.43	A	C
	3658	0		478 479	36. 509	43. 806	37. 591	1.00 24.68	A	C
ATOM ATOM	3659	N	PRO LEU	478 479	36. 464	42.583	37. 506	1.00 23.74	A	0
ATOM	3660	CA	LEU	479	35. 561 34. 376	44.600 44.068	37.116	1.00 24.02	A	N
ATOM	3661	CB	LEU	479	33. 186	44. 151	36. 465 37. 420	1.00 23.10	A	C
ATOM	3662		LEU	479	31. 845	43. 702	36.854	1.00 21.62	A	C
ATOM	3663		LEU	479	31. 915	42. 245	36. 430	1.00 21.11 1.00 21.98	A	C
ATOM	3664		LEU	479	30. 778	43. 901	37. 912	1.00 21.98	A	C
ATOM	3665	C	LEU	479		44. 857	35. 199	1.00 24.17	A	C
ATOM	3666	ŏ	LEU	479	33. 942	46.073	35. 244	1.00 22.18	A	C
ATOM	3667	N	TYR	480	33. 978	44. 160	34. 073	1.00 22.21	A A	O N
ATOM	3668	CA	TYR	480	33. 690	44. 801	32. 790	1.00 22.31	A	C
ATOM	3669	CB	TYR	480	34. 709	44. 353	31. 749	1.00 22.70	A	C
ATOM	3670	CG	TYR	480	36. 123	44.657	32. 147	1.00 21.95	A	C
ATOM	3671		TYR	480	36. 702	45. 885	31.843	1.00 22.81	A	Č
ATOM	3672		TYR	480	37. 999	46. 190	32. 249	1.00 23.84	A	č
ATOM	3673	CD2		480	36. 872	43. 733	32. 870	1.00 22.05	A	č
ATOM	3674	CE2	TYR	480	38. 165	44.027	33. 286	1.00 23.52	Ä	Č

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					ו כו	· C 4	7.6			(Continued)
						G. 4				
ATOM ATOM	3675 3676		TYR TYR		38. 722				A	C
ATOM	3677	C	TYR		39. 998 32. 291				A	0
ATOM	3678	ŏ	TYR		31. 964				A	C
ATOM	3679	N	THR		31. 472				A	0 N
ATOM	3680	CA	THR		30. 101				A A	N C
ATOM	3681	CB	THR		29. 097				A	C
ATOM	3682	0G1			29. 190				A	Ö
ATOM	3683	CG2		481	29. 398			1.00 21.29	Ä	č
ATOM	3684	C	THR	481	29. 740	46.015		1.00 23.25	Ä	č
ATOM	3685	0	THR	481	30. 298	47. 091		1.00 24.47	Α	0
ATOM	3686	N	LEU	482	28. 809			1.00 23.21	Α	N
ATOM	3687	CA	LEU	482	28. 368			1.00 23.54	Α	С
ATOM ATOM	3688 3689	CB	LEU	482	28. 310	45. 268	27. 155	1.00 22.93	A	C
ATOM	3690	CC	LEU LEU	482 482	28. 216	45. 922		1.00 23.14	A	C
ATOM	3691		LEU	482	29. 483 28. 043	46. 721 44. 861	25. 507 24. 699	1.00 23.20	A	C
ATOM	3692	C	LEU	482	26. 981	46. 767	28. 643	1.00 22.53 1.00 23.83	A	C
ATOM	3693	Ŏ	LEU	482	26. 254	46. 207	29. 458	1.00 25.57	A A	C 0
ATOM	3694	N	HIS	483	26. 610	47. 861	27. 994	1.00 22.84	A	N
ATOM	3695	CA	HIS	483	25. 301	48. 459	28. 231	1.00 22.49	Ä	Ċ
ATOM	3696	CB	HIS	483	25. 420	49.528	29. 321	1.00 22.16	Ä	Č
ATOM	3697	CG	HIS	483	26.003	49.025	30.604	1.00 24.44	Α	C
ATOM	3698		HIS	483	27. 289	48. 904	31.012	1.00 25.98	Α	C
ATOM ATOM	3699 3700		HIS HIS	483	25. 228	48. 567	31.648	1.00 25.15	A	N
ATOM	3700		HIS	483 483	26. 011 27. 266	48. 189	32.644	1.00 23.97	A	C
ATOM	3702	C	HIS	483	24. 764	48. 382 49. 097	32. 283 26. 950	1.00 22.74 1.00 22.46	A	N
ATOM	3703	ŏ	HIS	483	25. 507	49. 281	25. 987	1.00 22.46	A	C
ATOM	3704	Ň	SER	484	23. 475	49. 427	26. 932	1.00 20.23	A A	0 N
ATOM	3705	CA	SER	484	22.890	50.078	25. 768	1.00 19.27	A	C
ATOM	3706	CB	SER	484	21.789	49. 216	25. 164	1.00 19.99	Ä	č
ATOM	3707	0G	SER	484	20. 721	49.057	26.068	1.00 26.06	Ä	Ö
ATOM	3708	C	SER	484	22. 335	51.427	26. 213	1.00 19.12	Α	C
ATOM	3709	0	SER	484	21.656	51. 521	27. 232	1.00 19.17	Α	0
ATOM ATOM	3710 3711	N CA	SER SER	485 485	22. 628	52. 470	25. 445	1.00 19.29	A	N
ATOM	3712	CB	SER	485 485	22. 198 23. 025	53. 823	25. 783	1.00 20.52	A	C
ATOM	3713	OG	SER	485	24. 386	54. 841 54. 769	25. 000 25. 379	1.00 20.72	A	C
ATOM	3714	Č	SER	485	20. 727	54. 160	25. 604	1.00 23.68 1.00 20.05	A	0
ATOM	3715	0	SER	485	20. 208	55.040	26. 287	1.00 20.03	A A	C 0
ATOM	3716	N	VAL	486	20.055	53. 477	24. 688	1.00 20.23	A	N
ATOM	3717	CA	VAL	486	18.653	53.764	24. 444	1.00 19.23	Ä	C
ATOM	3718	CB	VAL	486	18.058	52.816	23.380	1.00 19.24	Ä	č
ATOM	3719		VAL	486	18. 099	51.383	23. 869	1.00 19.40	Α	С
ATOM ATOM	3720 3721	CG2 C	VAL	486	16.635	53. 223	23. 070	1.00 20.10	A	С
ATOM	3722		VAL	486 486	17.817	53.655	25. 705	1.00 19.72	A	C
ATOM	3723		ASN	480 487	16. 869 18. 190	54. 415 52. 727	25. 887	1.00 20.98	A	0
	50	••	- 1~11	101	10. 130	04.141	26. 581	1.00 20.80	Α	N

					FIG. 4-77		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3724 3725 3726 3727 3728 3729 3730 3731 3732 3733 3734 3735 3736 3737 3742 3743 3744 3745 3746 3747 3748 3749 3750 3751 3752 3753 3756 3757 3758	ND2 C O N CA CB CG OD1 OD2 C O N CA CB CCD CO N CA CB CCD CO N CA CB CCD CC O N CA CB CCD CC CC CCD CC CC CCD CC CCD CCD C	LEU	487 487 487 487 487 488 488 488 488 488	17. 458       52. 464       27. 824       1. 00 20. 70         16. 587       51. 229       27. 620       1. 00 18. 89         17. 403       50. 007       27. 171       1. 00 24. 29         16. 853       48. 948       26. 864       1. 00 20. 73         18. 722       50. 158       27. 132       1. 00 20. 73         18. 354       52. 220       29. 047       1. 00 22. 59         17. 865       51. 758       30. 079       1. 00 23. 24         20. 606       52. 290       30. 015       1. 00 23. 32         20. 606       52. 290       30. 015       1. 00 24. 08         20. 780       54. 718       30. 750       1. 00 24. 71         21. 933       54. 956       30. 345       1. 00 25. 68         19. 907       55. 601       30. 862       1. 00 26. 77         20. 488       50. 883       30. 608       1. 00 24. 38         20. 709       50. 689       31. 803       1. 00 24. 38         20. 127       49. 902       29. 791       1. 00 24. 63         20. 009       48. 541       30. 300       1. 00 25. 48         18. 837       47. 817       29. 630       1. 00 25. 85         17. 651       47. 594       <	A A A A A A A A A A A A A A A A A A A	Continued)  C C C C O N C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM	3759 3760 3761 3762	O N CA CB	LEU ARG ARG	491 492 492	23. 541 41. 579 28. 250 1. 00 27. 45 25. 179 42. 732 29. 246 1. 00 24. 68 25. 798 41. 529 29. 780 1. 00 24. 07	A A A	O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3763 3764 3765 3766 3767 3768 3769 3770 3771	CG CD NE CZ NH1 NH2 C O	ARG ARG ARG ARG ARG ARG ARG ARG VAL VAL	492 492 492 492 492 492 492 492 493 493	26. 045       40. 524       28. 648       1. 00       24. 82         27. 159       40. 919       27. 666       1. 00       26. 62         27. 105       40. 081       26. 387       1. 00       26. 76         25. 884       40. 357       25. 641       1. 00       29. 45         25. 708       41. 414       24. 855       1. 00       30. 52         26. 684       42. 297       24. 692       1. 00       31. 57         24. 540       41. 610       24. 261       1. 00       29. 62         27. 117       41. 831       30. 473       1. 00       23. 83         27. 602       42. 958       30. 438       1. 00       22. 78         27. 680       40. 807       31. 109       1. 00       24. 93         28. 966       40. 911       31. 791       1. 00       25. 89	A A A A A A A	C C C N C N C O N



										(Con	tinued)
					FI	G. 4	- 78			(00-	,
ATOM ATOM	3773 3774	CB CG1	VAL VAL	493 493	29. 018 30. 401	40. 034 40. 104	33. 052 33. 667	1.00 25.39 1.00 25.63	A A	C C	
ATOM	3775		VAL	493	27. 977	40.482	34. 044	1.00 25.35	Α	C	
ATOM	3776	C	VAL	493	30. 022	40. 382	30. 823	1.00 26.55	. A	C	
ATOM	3777	0 N	VAL	493	29. 858	39. 307	30. 250	1.00 29.06	· A	0	
ATOM ATOM	3778 3779	CA	LEU LEU	494 494	31. 103 32. 154	41. 125 40. 705	30. 644 29. 731	1.00 26.28 1.00 25.35	A	N C	
ATOM	3780	CB	LEU	494	32. 134 32. 657	41. 913	28. 944	1.00 23.74	A A	C	
ATOM	3781	CG	LEU	494	31.611	42. 554	28. 031	1.00 23.74	A	č	
ATOM	3782		LEU	494	32. 017	43. 989	27. 697	1.00 22.34	A	č	
ATOM	3783		LEU	494	31.453	41.706	26. 769	1.00 19.11	A	Č	
ATOM	3784	C	LEU	494	33. 315	40.034	30.453	1.00 26.29	A	С	
ATOM	3785	0	LEU	494	34.001	39. 182	29.885	1.00 29.20	Α	0	
ATOM	3786	N	GLU	495	33. 536	40. 420	31. 703	1.00 24.94	Α	N	
ATOM	3787	CA	GLU	495	34. 623	39. 859	32. 498	1.00 24.93	A	C	
ATOM	3788	CB	GLU	495	35. 969	40. 445	32.060	1.00 24.61	A	C	
ATOM	3789	CG	GLU	495	37. 153	39. 938	32. 862	1.00 27.02	A	C	
ATOM ATOM	3790 3791	CD OE1	GLU GLU	495 495	37. 332 37. 263	38. 435 37. 724	32. 733 33. 760	1.00 29.02	A	C	
ATOM	3792		GLU	495 495	37. 539	37. 962	31. 596	1.00 29.22 1.00 30.56	A	0	
ATOM	3793	C	GLU	495	34. 357	40. 210	33. 951	1.00 30.30	A A	C 0	
ATOM	3794	ŏ	GLU	495	34. 146	41. 380	34. 285	1.00 24.97	A	Õ	
ATOM	3795	Ň	ASP	496	34. 358	39. 197	34. 809	1.00 25.38	Ä	N	
ATOM	3796	CA	ASP	496	34.093	39. 409	36. 224	1.00 27.01	A	Ĉ	
ATOM	3797	CB	ASP	496	32.761	38. 757	36.602	1.00 27.17	Ā	Č	
ATOM	3798	CG	ASP	496	32.814	37. 236	36.567	1.00 27.71	Α	С	
ATOM	3799		ASP	496	31. 755	36.611	36.759	1.00 30.85	Α	0	
ATOM	3800		ASP	496	33. 898	36.657	36. 360	1.00 29.23	A	0	
ATOM	3801	C	ASP	496	35. 213	38. 889	37. 127	1.00 27.65	A	C	
ATOM ATOM	3802 3803	0 N	ASP ASN	496	35. 177	39. 071	38. 345	1.00 27.02	A	0	
ATOM	3804	N CA	ASN	497 497		38. 234 37. 717	36. 528 37. 287	1.00 27.52	A	N	
ATOM	3805	CB	ASN	497	38. 047	38. 863	37. 998	1.00 29.40 1.00 28.73	A	C C	
ATOM	3806	CG	ASN	497		39. 622	37. 080	1.00 29.26	A A	C	
ATOM	3807	0D1	ASN	497		39. 093	36. 630	1.00 27.48	A	Õ	
<b>ATOM</b>	3808		ASN	497		40.870	36. 792	1.00 31.42	Ä	N	
ATOM	3809	C	ASN	497		36.652	38.301	1.00 30.77	Ä	Ċ	
ATOM	3810	0	ASN	497	37. 407	36.669	39. 444	1.00 31.70	A	0	
ATOM	3811	N	SER	498		35. 721	37.869	1.00 31.77	Α	N	
ATOM	3812	CA	SER	498		34. 629	38. 716	1.00 31.32	A	С	
ATOM	3813	CB	SER	498		33. 778	37. 974	1.00 32.01	A	C	
ATOM ATOM	3814	OG C	SER	498		34. 561	37. 629	1.00 35.01	A	0	
ATOM	3815 3816	C 0	SER SER	498 498		33. 772	39.093	1.00 30.55	A	C	
ATOM	3817	N	ALA	499		33. 456 33. 398	40. 266 38. 087	1.00 31.44 1.00 29.46	A A	0 N	
ATOM	3818	CA	ALA	499		32. 566	38. 304	1.00 29.40	A	N C	
ATOM	3819	CB	ALA	499		32. 477	37. 033	1.00 27.47	A	Č	
ATOM	3820	C	ALA	499		33. 156	39. 421	1.00 30.28	Ä	č	
ATOM	3821	0	ALA	499		32.515	40.447	1.00 30.98	A	Ŏ	

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						((	Continued)
					FIG. 4-79		
ATOM	3822	N	LEU	500	40.098 34.393 39.223 1.00 30.98	Α	N
ATOM	3823	ĊA	LEU	500	40.919 35.073 40.208 1.00 31.89		Ċ
ATOM	3824	CB	LEU	500	41. 218 36. 502 39. 755 1. 00 31. 32		č
ATOM	3825	CG	LEU	500	42.106 37.312 40.703 1.00 31.18		č
ATOM	3826		LEU	500	43. 459 36. 635 40. 871 1. 00 29. 43		č
ATOM	3827		LEU	500	42. 269 38. 711 40. 155 1. 00 31. 85		č
ATOM	3828	C	LEU	500	40. 251 35. 096 41. 574 1. 00 33. 26		č
ATOM	3829	ŏ	LEU	500	40. 878 34. 772 42. 578 1. 00 33. 38		ŏ
ATOM	3830	N	ASP	501	38. 984 35. 484 41. 624 1. 00 35. 48		Ň
ATOM	3831	CA	ASP	501	38. 294 35. 522 42. 905 1. 00 38. 46		Č
ATOM	3832	CB	ASP	501	36. 815 35. 859 42. 720 1. 00 40. 04		č
ATOM	3833	CG	ASP	501	36.068 35.942 44.043 1.00 42.67	Ä	č
ATOM	3834	0D1	ASP	501	36. 349 36. 870 44. 831 1. 00 44. 51		ŏ
ATOM	3835		ASP	501	35. 202 35. 076 44. 300 1. 00 44. 58		ŏ
ATOM	3836	C	ASP	501	38. 432 34. 149 43. 557 1. 00 39. 76		č
ATOM	3837	ŏ	ASP	501	38. 622 34. 039 44. 765 1. 00 39. 03		ŏ
ATOM	3838	Ň	LYS	502	38. 352 33. 103 42. 740 1. 00 41. 28		N
ATOM	3839	CA	LYS	502	38. 470 31. 741 43. 237 1. 00 42. 62		Č
ATOM	3840	CB	LYS	502	38. 206 30. 746 42. 100 1. 00 44. 22		č
ATOM	3841	CG	LYS	502	37. 853 29. 323 42. 548 1. 00 45. 49		č
ATOM	3842	CD	LYS	502	39. 071 28. 557 43. 050 1. 00 47. 22		č
ATOM	3843	CE	LYS	502	38.700 27.147 43.516 1.00 47.98		č
ATOM	3844	NZ	LYS	502	37. 783 27. 155 44. 696 1. 00 47. 33		N
ATOM	3845	C	LYS	502	39. 866 31. 534 43. 828 1. 00 43. 11		Ċ
ATOM	3846	ŏ	LYS	502	40.001 31.079 44.963 1.00 43.40		Ŏ
ATOM	3847	N	MET	503	40. 900 31. 881 43. 064 1. 00 42. 72		N N
ATOM	3848	CA	MET	503	42. 280 31. 735 43. 528 1. 00 43. 17		Ċ
ATOM	3849	CB	MET	503	43. 256 32. 193 42. 444 1. 00 45. 35		č
ATOM	3850	CG	MET	503	43. 267 31. 332 41. 200 1. 00 48. 35		č
ATOM	3851	SD	MET	503	44. 396 32. 004 39. 952 1. 00 54. 36		Š
ATOM	3852	CE	MET	503	45. 957 31. 226 40. 438 1. 00 52. 89		Č
ATOM	3853	C	MET	503	42.551 32.530 44.807 1.00 41.81		Č
ATOM	3854	ŏ	MET	503	43. 059 31. 990 45. 790 1. 00 40. 44		Ŏ
ATOM	3855	Ň	LEU	504	42. 215 33. 815 44. 779 1. 00 41. 12		N
ATOM	3856	CA	LEU	504	42. 412 34. 700 45. 919 1. 00 42. 37		Ċ
ATOM	3857	CB	LEU	504	41.914 36.103 45.566 1.00 41.90	A	Č
ATOM	3858	CG	LEU	504	42.960 37.197 45.314 1.00 42.42	A	Č
ATOM	3859		LEU	504	44.111 36.668 44.472 1.00 41.70	Ä	Č
ATOM	3860		LEU	504	42. 277 38. 376 44. 635 1. 00 40. 64	Ä	Č
ATOM	3861	C	LEU	504	41.727 34.211 47.199 1.00 43.78	Ā	C C C C
ATOM	3862	0	LEU	504	42.056 34.664 48.298 1.00 43.47		Ö
ATOM	3863	N	GLN	505	40.774 33.292 47.054 1.00 44.74		N
ATOM	3864	CA	GLN	505	40.053 32.737 48.198 1.00 45.12		Ċ
ATOM	3865	CB	GLN	505	38. 911 31. 834 47. 721 1. 00 47. 10		Č
ATOM	3866	ĊĠ	GLN	505	37. 767 32. 574 47. 059 1. 00 50. 85		Č
ATOM	3867	CD	GLN	505	37. 091 33. 544 48. 005 1. 00 52. 28		Č
<b>ATOM</b>	3868	0E1	GLN	505	36. 320 33. 143 48. 878 1. 00 53. 91		Ō
<b>ATOM</b>	3869		GLN	505	37. 390 34. 829 47. 848 1. 00 53. 20		N
ATOM	3870	C	GLN	505	40. 981 31. 920 49. 090 1. 00 44. 28		C

(Continued)	
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FIG. 4-80	F	Ι	G.	4 -	8 0	)
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ATOM	3871	0	GLN	505	40.806	31.863	50.309	1.00 44.07	Α	0
	3872	N	ASN	506	41.970	31. 288	48. 473	1.00 43.04	Α	N
ATOM								1.00 43.10	A	Ċ
ATOM	3873	CA	ASN	506	42. 907	30. 452	49. 205			
ATOM	3874	CB	ASN	506	43. 301	29. 254	48. 344	1.00 47.04	A	C
ATOM	3875	CG	ASN	506	43.962	28. 157	49. 141	1.00 50.97	Α	C
ATOM	3876		ASN	506	44. 478	27.187	48. 575	1.00 53.71	Α	0
ATOM	3877		ASN	506	43. 945	28. 293	50.467	1.00 52.33	Α	N
				506	44. 156	31. 211	49. 635	1.00 41.53	Ā	Ĉ
ATOM	3878	C	ASN							ŏ
ATOM	3879	0	ASN	506	45. 191	30.605	49.903	1.00 41.33	A	
ATOM	3880	N	VAL	507	44. 060	32. 538	49.696	1.00 39.25	A	N
ATOM	3881	CA	VAL	507	45. 186	33. 367	50.110	1.00 35.74	Α	C
ATOM	3882	CB	VAL	507	45.801	34. 155	48. 927	1.00 35.80	A	C
ATOM	3883	CG1	VAL	507	46.989	34.974	49.416	1.00 34.07	Α	C
ATOM	3884	CG2	VAL	507	46. 234	33. 204	47. 823	1.00 34.58	A	C
					44. 726	34. 369	51.154	1.00 34.07	Ä	č
ATOM	3885	C	VAL	507						
ATOM	3886	0	VAL	507	43.617	34. 887	51.080	1.00 33.19	A	0
ATOM	3887	N	GLN	508	45. 586	34.634	52. 129	1.00 33.03	A	N
ATOM	3888	CA	GLN	508	45.272	35. 578	53. 191	1.00 31.62	Α	C
ATOM	3889	CB	GLN	508	46. 146	35.307	54.418	1.00 31.47	A	C
ATOM	3890	CG	GLN	508	46.034	33.894	54.970	1.00 31.59	Α	C
ATOM	3891	CD	GLN	508	46. 955	33. 667	56. 155	1.00 30.69	Ā	Ċ
		0E1	GLN	508	46. 994	34. 471	57.083	1.00 31.83	A	ŏ
ATOM	3892							1.00 31.83		N
ATOM	3893	NE2	GLN	508	47. 696	32. 568	56. 130		A	
ATOM	3894	C	GLN	508	45. 521	36. 996	52.689	1.00 30.18	A	C
ATOM	3895	0	GLN	508	46.480	37. 648	53. 097	1.00 29.60	A	0
ATOM	3896	N	MET	509	44.652	37. 463	51.801	1.00 28.77	Α	N
ATOM	3897	CA	MET	509	44. 775	38. 797	51.236	1.00 28.64	Α	C
ATOM	3898	CB	MET	509	43.744	38. 993	50.124	1.00 30.06	Α	C
ATOM	3899	CG	MET	509	44.004	38. 143	48.896	1.00 31.71	Α	C
ATOM	3900	SD	MET	509	45.605	38. 540	48.171	1.00 34.08	A	S
ATOM	3901	CE	MET	509	45. 130	39. 727	46. 922	1.00 30.89	Ä	č
					44.602	39. 890	52. 280	1.00 27.67	A	č
ATOM	3902	C	MET	509						
ATOM	3903	0	MET	509	43. 875	39. 724	53. 255	1.00 28.41	A	0
ATOM	3904	N	PRO	510	45. 279	41.032	52.085	1.00 26.51	A	N
ATOM	3905	CD	PRO	510	46. 198	41.361	50. 978	1.00 25.01	A	C
ATOM	3906	CA	PRO	510	45.180	42. 150	53.023	1.00 24.17	Α	C
ATOM	3907	CB	PRO	510	46.401	42.985	52.672	1.00 24.51	A	C
ATOM	3908	CG	PRO	510	46.442	42.847	51.185	1.00 23.21	Α	C
ATOM	3909	C	PRO	510	43. 881	42.896	52.741	1.00 23.17	A	Č
		Ö	PRO	510	43. 209	42. 632	51.751	1.00 24.30	Ä	ŏ
ATOM	3910						53. 607	1.00 22.25	A	N
ATOM	3911	N	SER	511	43. 527	43. 826				
ATOM	3912	CA	SER	511	42. 315	44. 592	53. 409	1.00 23.52	A	C
ATOM	3913	CB	SER	511	41.375	44. 441	54.606	1.00 21.47	Ą	C
ATOM	3914	0G	SER	511	42.000	44. 897	55. 796	1.00 22.50	A	0
ATOM	3915	C	SER	511	42. 734	46.043	53. 258	1.00 25.81	Α	C
ATOM	3916	0	SER	511	43.823	46.433	53.687	1.00 27.50	Α	0
ATOM	3917	Ň	LYS	512	41.869	46.838	52.642	1.00 25.44	Α	N
ATOM	3918	CA	LYS	512	42. 148	48. 242	52. 437	1.00 24.17	A	C
ATOM	3919	CB	LYS	512	42. 178	48. 555	50. 943	1.00 23.04	Ä	Č
VION	0913	νD	רוט	014	74, 110	10.000	00. UTO	1.00 00.01		J



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ATOM	3920	CG	LYS	512	42.252	50. 043	50. 621	1.00 21.12	A	C
ATOM	3921	CD	LYS	512	42. 368	50. 249	49.125	1.00 21.07	Α	C
ATOM	3922	CE	LYS	512	42.639	51.688	48.792	1.00 19.46	Α	С
ATOM	3923	NZ	LYS	512	42. 779	51.870	47. 343	1.00 15.68	A	Ň
ATOM	3924	C	LYS	512	41.095	49. 109	53. 105	1.00 24.25	A	Ç
ATOM	3925	0	LYS	512	39. 905	48. 958	52.846	1.00 23.45	Α	0
ATOM	3926	N	LYS	513	41.546	50.017	53.960	1.00 24.50	Α	N
ATOM	3927	CA	LYS	513	40.661	50. 941	54.647	1.00 25.28	Α	C
ATOM	3928	CB	LYS	513	41.040	51.041	56. 124	1.00 26.65	Α	С
ATOM	3929	CG	LYS	513	40. 202	52.025	56. 914	1.00 27.55	A	Č
					38. 754			1.00 27.00		Č
ATOM	3930	CD	LYS	513		51.577	56. 954		A	
ATOM	3931	CE	LYS	513	37. 901	52.476	57. 844	1.00 35.12	A	C
ATOM	3932	NZ	LYS	513	36. 503	51.943	57. 960	1.00 38.12	A	N
ATOM	3933	С	LYS	513	40.806	52.312	53.999	1.00 26.42	Α	C
ATOM	3934	0	LYS	513	41.918	52.829	53.877	1.00 28.66	Α	0
ATOM	3935	N	LEU	514	39.688	52.891	53.575	1.00 25.40	Α	N
ATOM	3936	CA	LEU	514	39.688	54. 213	52. 958	1.00 22.53	A	Ċ
ATOM	3937	CB	LEU	514	39. 147	54. 119	51.536	1.00 20.88	Ä	č
		CG	LEU		38. 866					
ATOM	3938			514		55. 443	50. 825	1.00 21.52	A	C
ATOM	3939	CD1		514	40. 149	56. 242	50.662	1.00 20.94	A	C
ATOM	3940	CD2		514	38. 244	55. 153	49. 476	1.00 22.59	Α	C
ATOM	3941	C	LEU	514	38.812	55. 151	53. 788	1.00 22.73	Α	C
ATOM	3942	0	LEU	514	37. 591	54. 981	53.844	1.00 20.65	Α	0
ATOM	3943	N	ASP	515	39. 435	56.132	54.437	1.00 23.05	Α	N
ATOM	3944	CA	ASP	515	38.693	57.076	55. 268	1.00 25.43	Ä	C
ATOM	3945	CB	ASP	515	38. 581	56. 535	56.693	1.00 27.35	Ä	Č
ATOM	3946	CG	ASP	515	37. 419	57.142	57.458	1.00 27.33		
									A	C
ATOM	3947	OD1	ASP	515	37. 278	56. 851	58.668	1.00 32.73	A	0
ATOM	3948		ASP	515	36.639	57. 905	56.851	1.00 32.89	Α	0
ATOM	3949	C	ASP	515	39.346	58.462	55. 287	1.00 26.80	Α	C
ATOM	3950	0	ASP	515	40. 054	58. 835	54.357	$1.00\ 27.23$	Α	0
ATOM	3951	N	PHE	516	39. 107	59. 230	56.345	1.00 27.53	Α	N
ATOM	3952	CA	PHE	516	39.688	60.566	56.431	1.00 28.71	A	C
ATOM	3953	CB	PHE	516	38. 780	61.590	55. 729	1.00 28.60	Ä	Č
ATOM	3954	CG	PHE	516	37. 387	61.658	56. 291	1.00 28.84	A	Č
		CD1	PHE	516						C
ATOM	3955				37. 160	62.115	57. 583	1.00 29.59	A	•
ATOM	3956	CD2		516	36. 297	61.242	55. 532	1.00 30.94	A	Ç
ATOM	3957	CE1		516	35. 875	62. 157	58. 116	1.00 28.99	Α	C
ATOM	3958	CE2		516	35.002	61.279	56.058	1.00 29.88	Α	C
ATOM	3959	CZ	PHE	516	34. 795	61.737	57.352	1.00 29.33	Α	C
ATOM	3960	С	PHE	516	39.943	61.024	57.861	1.00 28.58	Α	C
ATOM	3961	0	PHE	516	39.414	60.450	58.811	1.00 29.42	A	0
ATOM	3962	N	ILE	517	40. 773	62.053	57.990	1.00 26.80	Ä	Ň
ATOM	3963	CA	ILE	517	41.094	62.651	59. 272	1.00 28.68	A	Ċ
ATOM	3964	CB	ILE		42. 580	62.410	59. 686	1.00 28.08		
				517					A	C
ATOM	3965	CG2	ILE	517	42. 799	60. 937	59. 989	1.00 23.78	A	C
ATOM	3966	CG1	ILE	517	43. 538	62.861	58. 581	1.00 29.30	A	C
ATOM	3967	CD1	ILE	517	43.676	64. 361	58. 431	1.00 31.79	A	C
ATOM	3968	C	ILE	517	40. 829	64. 132	59.041	1.00 30.84	Α	C

(Continued) FIG. 4-82 ATOM 3969 0 ILE 517 40.813 64.577 57.898 1.00 31.70 0 3970 ILE 518 40.616 64.899 60.102 ATOM N 1.00 32.28 N A **ATOM** 3971 CA ILE 518 40.323 66.313 59.924 1.00 33.51 C ILE 3972 518 38.977 66.683 60.595 1.00 33.41 ATOM CB C A CG2 ILE 518 38.603 68.125 60.283 ATOM 3973 1.00 33.29 C A **ATOM** 37.871 65.765 3974 CG1 ILE 518 60.072 1.00 33.38 C Α **ATOM** 3975 CD1 ILE 36.535 65.972 60.749 1.00 33.46 518 C A **ATOM** 60.455 3976 C ILE 518 41.415 67. 222 1.00 35.00 C A **ATOM** 3977 0 ILE 518 41.883 67.069 61.580 1.00 35.82 A 0 **ATOM** 3978 N LEU 519 41.824 68.169 59.622 1.00 36.74 N A **ATOM** 3979 CA LEU 519 42.850 59.997 69.126 1.00 39.19 C A **ATOM** 3980 LEU 44.169 59.276 CB 519 68.828 1.00 38.52 C A **ATOM** CG 3981 LEU 519 44.746 67.413 59.364 1.00 39.20 C A **ATOM** 3982 CD1 LEU 519 45.996 58.493 C 67.326 1.00 39.31 A 3983 **ATOM** CD2 LEU 519 45.068 67.059 60.806 1.00 39.59 C Α **ATOM** 3984 C 42.351 LEU 519 70.501 59.591 1.00 40.26 C A **ATOM** 3985 0 LEU 519 42.102 70.754 58.414 1.00 40.93 0 A **ATOM** 3986 N **ASN** 520 42.198 71.382 60.574 1.00 41.70 N Α 41.736 **ATOM** 3987 60.321 CA ASN 520 72.735 1.00 42.46 Α C **ATOM** 3988 CB ASN 520 42.760 73.474 59.467 1.00 44.27 C A ATOM 3989 CG ASN 520 44.078 73.635 60.177 1.00 46.04 C A **ATOM** 3990 44.540 OD1 ASN 520 72.723 60.859 1.00 47.21 A 0 **ATOM** 3991 ND2 ASN 520 44.697 74.796 60.020 1.00 50.39 N A **ATOM** 3992 C ASN 520 40.384 72.728 59.638 1.00 42.18 C Α **ATOM** 3993 0 **ASN** 520 40.183 73.388 58.620 1.00 42.15 Α 0 **ATOM** 3994 N **GLU** 521 39.461 71.963 60.210 1.00 41.73 A N **ATOM** 3995 CA GLU 521 38.105 71.861 59.691 1.00 42.64 A **ATOM** 3996 CB **GLU** 521 37.445 73.245 59.660 1.00 44.72 A C ATOM 3997 CG **GLU** 37.967 521 74.204 60.715 1.00 48.09 A  $\mathbb{C}$ **ATOM** 3998 GLU CD 521 38.057 73.564 62.081 1.00 50.91 C Α **ATOM** 73.245 3999 OE1 GLU 521 36.994 62.661 1.00 52.95 A 0 **ATOM** 4000 OE2 GLU 521 39.194 73.374 62.568 1.00 51.94 Α 0 **ATOM** 4001 C GLU 521 38.041 71.248 58.296 1.00 40.90 Α C 57. 701 **ATOM** 4002 0 **GLU** 521 36.967 71.171 1.00 40.88 A 0 **ATOM** 4003 N THR 522 39.182 70.814 57.772 1.00 39.01 A N **ATOM** 4004 CA THR 522 70. 221 39.206 56.442 1.00 36.94 C Α **ATOM** 4005 CB THR 522 40.339 70.816 55.584 1.00 38.55 A C **ATOM** 4006 OG1 THR 522 72.223 40.127 55.431 1.00 40.51 Α 0 **ATOM** 4007 CG2 THR 522 40.364 70.171 54.202 1.00 39.39 C Α **ATOM** 4008 C THR 522 39.357 68.706 56.482 1.00 34.94 Α C 4009 0 **ATOM** THR 522 40.086 68.152 57.305 1.00 33.48 Α 0 **ATOM** 4010 LYS N 523 55.573 38.653 68.045 1.00 33.07 A N ATOM 4011 CA LYS 523 38.685 66.597 55.479 1.00 30.63 C Α LYS **ATOM** 4012 CB 523 37.357 66.105 54.901 1.00 31.78 C Α **ATOM** 4013 CG LYS 523 36.882 64.770 55.440 1.00 34.92 C Α **ATOM** 4014 CD LYS 523 35.473 64.458 54.956 1.00 37.12 C Α LYS **ATOM** 4015 CE 523 34.473 65.488 55.455 1.00 40.20 C A **ATOM** 4016 NZ LYS 523 33.111 65.296 54.873 1.00 43.74 N A **ATOM** 4017 C LYS 523 39.845 54.576

66. 191 SUBSTITUTE SHEET (RULE 26)

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									1 00	00 00		0	
ATOM	4018	0	LYS	523	39. 962			53. 448		29. 90	A	0	
ATOM	4019		PHE	524	40. 711			55.086		26. 11	A	N	
ATOM	4020		PHE	524	41.857			54. 334		23. 17	A	C	
ATOM	4021		PHE	524	43. 139			54. 953		22. 95	A	C	
ATOM	4022		PHE	524	43. 394			54.636		21.35	A	C	
ATOM	4023	CD1		524	43. 773			53. 346		21.14	A	C	
ATOM	4024	CD2		524	43. 26			55. 620		18.86	A	C	
ATOM	4025	CE1		524	44. 020			53.040		19. 22	A	C	
ATOM	4026	CE2		524	43. 512			55. 329		19.37	A	C	
ATOM	4027		PHE	524	43. 89			54.034		19.34	A	C	
ATOM	4028	C	PHE	524	41.87			54. 328		23. 15	A	C	
ATOM	4029	0	PHE	524	42. 084			55. 356		22.01	A	0	
ATOM	4030	N	TRP	525	41.640			53. 156		24.00	A	N	
ATOM	4031	CA	TRP	525	41.59			53.000		23.65	A	C	
ATOM	4032	CB	TRP	525	40. 879			51.696		23. 74	A	C	
ATOM	4033	CG	TRP	525	39. 470			51.647		24. 69	A	C	
ATOM	4034	CD2		525	38. 29			51.893		25. 25	A	C	
ATOM	4035	CE2		525	37. 19			51.800		26.02	A	C	
ATOM	4036	CE3		525	38. 049			52. 186		25. 53	A	C	
ATOM	4037	CD1	TRP	525	39.06			51.418		25. 58	A	C	
ATOM	4038	NE1	TRP	525	37. 693			51.508		25. 32	A	N	
ATOM	4039	CZ2		525	35. 87			51.990		25. 72	A	C	
ATOM	4040	CZ3		525	36. 73			52.374		24.54	A	C	
ATOM	4041	CH2		525	35.66			52. 276		24.86	A	C	
ATOM	4042	C	TRP	525	42. 92			53.042		23.39	A	C	
ATOM	4043	0	TRP	525	43. 99			52. 803		24. 19	A	0	
ATOM	4044	N	TYR	526	42.84			53. 347		22.63	A	N	
ATOM	4045	CA	TYR	526	44.00			53. 410		22.38	A	C	
ATOM	4046	CB	TYR	526	44. 71			54. 763		22. 15	A	C C C	
ATOM	4047	CG	TYR	526	43. 94			55. 929		24.08	A	L C	
ATOM	4048		TYR	526	43. 96			56. 178		23. 01	A	Ç	
ATOM	4049		TYR	526	43. 21			57. 204		25.01	A		
ATOM	4050		TYR	526	43. 15			56. 747		24. 62	A	C	
ATOM	4051		TYR	526	42. 39			57. 772		24.74	A	C C	
ATOM	4052	CZ	TYR	526	42. 42			57. 997		25.67	A		
ATOM	4053	OH	TYR	526	41.65			59.003		25. 43	A	0	
ATOM	4054	C	TYR	526	43. 47			53. 251		22.00	A	C	
ATOM	4055	0	TYR	526	42. 29			53. 482		21.71	A	0 N	
ATOM	4056	N	GLN	527	44. 35			52.843		19.68	A	N	
ATOM	4057	CA	GLN	527	43. 96			52. 707		20.14	A	C	
ATOM	4058	CB	GLN	527	43. 84			51. 238		19.56	A	C	
ATOM	4059	CG	GLN	527	45. 12			50.465		23.06	A	C	
ATOM	4060	CD	GLN	527	44. 98			49.065		23.49	A	C	
ATOM	4061		GLN	527	44. 03			48. 359		25. 79	A	0 N	
ATOM	4062		GLN	527	45. 93			48.648		22. 35	A	N C	
ATOM	4063	C	GLN	527	45.03			53. 389 53. 563		20. 67 19. 72	A A	0	
ATOM	4064	0 N	GLN	527 528	46. 17			53. 792		21.11	A	N	
ATOM	4065	N	MET		44. 67			54. 460		22. 32	A	C	
MOTA	4066	CA	MET	528	45. 61	n ar•	( ( 1	J4. 4UU	1.00	44.34	K	C	

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ATOM	4067	CB	MET	528	45. 372	51.753 52.971	55. 967 56. 727	1.00 23.57 1.00 23.53	A A	C
ATOM	4068	CG	MET	528 528	45.830	52. 683	58. 492	1.00 23.55	A A	S
ATOM	4069	SD CE	MET MET	528	45.605 46.400	54. 107	59. 158	1.00 23.30	A	C
ATOM ATOM	4070 4071	CE	MET	528	45.482	50. 347	53. 974	1.00 23.25	A	č
ATOM	4072	0	MET	528	44. 383	49. 790	53. 935	1.00 24.82	Ä	ŏ
ATOM	4073	N	ILE	529	46.605	49. 751	53.600	1.00 22.51	Ā	N
ATOM	4074	CA	ILE	529	46. 587	48. 363	53. 183	1.00 21.97	Ā	C
ATOM	4075	CB	ILE	529	47.644	48.078	52.116	1.00 19.54	A	C
ATOM	4076	CG2	ILE	529	47. 557	46.635	51.681	1.00 18.75	Α	C
ATOM	4077	CG1	ILE	529	47. 454	49.029	50. 927	1.00 21.01	Α	C
ATOM	4078	CD1	ILE	529	46.045	49. 038	50. 335	1.00 19.28	A	C
ATOM	4079	C	ILE	529	46.937	47. 620	54. 465	1.00 24.02	A	C
ATOM	4080	0	ILE	529	48. 114	47. 505	54. 820	1.00 25.51	A	0
ATOM	4081	N	LEU	530	45. 911	47. 153	55. 175	1.00 24.47	A	N
ATOM	4082	CA	LEU	530	46. 114	46. 443	56. 438 57. 370	1.00 24.76	A	C
ATOM	4083	CB	LEU	530 530	44. 915 44. 451	46. 640 48. 052	57. 726	1.00 24.08 1.00 24.92	A A	C C
ATOM ATOM	4084 4085	CC	LEU LEU	530 530	43. 365	47. 928	58. 763	1.00 24.32	A	Č
ATOM	4086		LEU	530	45. 589	48. 896	58. 272	1.00 25.50	A	č
ATOM	4087	CDZ	LEU	530	46. 337	44. 953	56. 241	1.00 24.39	Ä	č
ATOM	4088	ŏ	LEU	530	45.686	44. 319	55. 411	1.00 24.58	A	Ŏ
ATOM	4089	Ň	PRO	531	47. 272	44.374	57.003	1.00 24.58	Ā	N
ATOM	4090	CD	PRO	531	48. 174	45.045	57.950	1.00 24.42	Α	C
ATOM	4091	CA	PR0	531	47. 578	42.943	56.913	1.00 26.79	Α	C
ATOM	.4092	CB	PRO	531	48.763	42. 784	57.862	1.00 26.36	A	C
ATOM	4093	CG	PRO	531	48. 580	43. 913	58. 838	1.00 26.79	A	C
ATOM	4094	C	PRO	531	46. 388	42.078	57. 312	1.00 28.05	A	C
ATOM	4095	0	PRO	531	45. 443	42.562	57. 931	1.00 31.01	A	0
ATOM	4096	N	PRO	532	46.417	40. 782	56.964	1.00 28.42	A	N
ATOM	4097	CD	PRO	532 532	47.484	40.062 39.874	56. 253 57. 306	1.00 28.00 1.00 28.68	A	C
ATOM ATOM	4098 4099	CA CB	PRO PRO	532 532	45. 316 45. 783	38. 534	56. 745	1.00 28.68	A A	C
ATOM	4100	CG	PRO	532 532	46. 726	38. 912	55. 659	1.00 28.50	A	Č
ATOM	4101	C	PRO	532	45.113	39. 799	58. 814	1.00 29.80	A	č
ATOM	4102	ŏ	PRO	532	46.051	40.006	59. 579	1.00 31.52	A	ŏ
ATOM	4103	Ň	HIS	533	43.894	39.501	59. 242	1.00 31.29	A	N
ATOM	4104	CA	HIS	533	43.605	39.382	60.670	1.00 31.80	Α	С
ATOM	4105	CB	HIS	533	44. 278	38. 127	61.225	1.00 29.82	Α	С
ATOM	4106	CG	HIS	533	44. 170	36.936	60.324	1.00 29.23	A	C
ATOM	4107		HIS	533	45.114	36. 247	59.641	1.00 28.40	A	Ĉ
ATOM	4108		HIS	533	42.966	36. 335	60.024	1.00 28.40	A	N
ATOM	4109		HIS	533	43.174	35. 326	59. 197	1.00 28.67	A	C
ATOM	4110		HIS HIS	533 533	44.469	35. 251 40. 601	58. 949 61. 445	1.00 28.85 1.00 33.77	A A	N C
ATOM	4111 4112	C 0	HIS	533	44.101 44.469	40. 601	62.617	1.00 33.77	A	Ö
ATOM ATOM	4112	N	PHE	534	44. 409	40. 465	60. 787	1.00 35.55	A	N
ATOM	4114	CA	PHE	534	44. 578	42. 987	61.427	1.00 37.29	Ä	Ċ
ATOM	4115	CB	PHE	534	44. 249	44. 203	60. 555	1.00 36.11	A	Č

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ATOM 4116 CG PHE 534 44.510 45.523 61.235 1.00 35.46 A C ATOM 4117 CDI PHE 534 45.811 45.956 61.654 1.00 36.5.65 A C ATOM 4118 CD2 PHE 534 43.455 46.320 61.654 1.00 36.5.65 A C ATOM 4120 CE2 PHE 534 43.688 47.530 62.304 1.00 35.26 A C ATOM 4121 CZ PHE 534 43.688 47.530 62.304 1.00 35.25 A C ATOM 4121 CZ PHE 534 43.688 47.530 62.304 1.00 35.35 A C ATOM 4122 C PHE 534 43.920 43.158 62.790 1.00 38.07 A C ATOM 4123 O PHE 534 42.705 43.046 62.911 1.00 38.83 A O ATOM 4123 O PHE 534 42.705 43.046 62.911 1.00 38.83 A O ATOM 4124 N ASP 535 44.726 43.621 65.160 1.00 40.72 A C ATOM 4126 CB ASP 535 44.726 43.621 65.160 1.00 40.72 A C ATOM 4127 CC ASP 535 44.751 42.541 66.089 1.00 43.14 A C ATOM 4127 CC ASP 535 44.751 42.541 66.089 1.00 43.14 A C ATOM 4129 OD2 ASP 535 44.704 43.668 67.912 1.00 46.58 A O ATOM 4130 C ASP 535 44.614 4.985 65.699 1.00 48.00 A O ATOM 4131 O ASP 535 45.799 45.270 65.837 1.00 40.91 A C ATOM 4131 O ASP 535 45.799 45.270 65.837 1.00 40.91 A C ATOM 4131 O ASP 535 44.614 4.985 65.699 1.00 40.91 A C ATOM 4131 C C ASP 535 44.614 4.985 65.699 1.00 40.91 A C ATOM 4131 C C ASP 535 44.614 4.985 65.699 1.00 40.91 A C ATOM 4131 C ASP 535 45.799 45.270 65.837 1.00 40.91 A C ATOM 4133 CA LYS 536 43.936 47.148 66.572 1.00 44.69 A C ATOM 4135 C C ASP 535 44.91 A SP 535 A C ATOM 4136 C D LYS 536 42.675 48.018 66.572 1.00 44.69 A C ATOM 4136 CD LYS 536 42.675 48.018 66.572 1.00 44.69 A C ATOM 4136 CD LYS 536 44.644 4.895 65.891 1.00 42.56 A C ATOM 4136 CD LYS 536 44.644 4.896 65.200 1.00 47.06 A C ATOM 4137 CE LYS 536 42.675 48.018 66.572 1.00 44.69 A C ATOM 4136 CD LYS 536 44.896 48.147 68.896 1.00 42.56 A C ATOM 4137 CE LYS 536 44.896 66.02 60.20 1.00 44.69 A C ATOM 4140 C LYS 536 44.896 48.147 68.896 1.00 42.50 A C ATOM 4141 N SER 537 45.224 43.91 69.888 1.00 42.57 A C ATOM 4141 N SER 537 45.224 66.022 1.00 44.09 A C ATOM 4141 N SER 537 45.224 66.022 1.00 44.99 A C ATOM 4141 N SER 537 45.224 66.025 1.00 44.99 A C ATOM 4155 C LYS 538 48.524 47.996 68.091 1.00 42.57 A C ATOM 4164 C LYS 538 49.00 44.896 66.01 70.06										_	_
ATOM 4118 CD2 PHE 534 43.455 46.320 61.654 1.00 33.355 A C ATOM 4120 CE2 PHE 534 46.056 47.167 62.124 1.00 36.555 A C ATOM 4121 CC2 PHE 534 44.090 47.957 62.541 1.00 35.26 A C ATOM 4121 CZ PHE 534 44.990 47.957 62.541 1.00 35.26 A C ATOM 4122 C PHE 534 44.990 47.957 62.541 1.00 35.25 A C ATOM 4123 0 PHE 534 42.705 43.046 62.911 1.00 38.07 A C ATOM 4123 NA SSP 535 44.725 43.435 63.810 1.00 38.07 A C ATOM 4124 N ASP 535 44.725 43.435 63.810 1.00 38.07 A C ATOM 4125 CA ASP 535 44.725 43.435 63.810 1.00 40.72 A C ATOM 4126 CB ASP 535 44.751 42.541 66.089 1.00 40.72 A C ATOM 4127 CG ASP 535 44.751 42.541 66.089 1.00 46.19 A C ATOM 4128 0D1 ASP 535 44.751 42.541 66.089 1.00 46.19 A C ATOM 4129 0D2 ASP 535 44.614 4.985 67.912 1.00 46.58 A O ATOM 4131 0 ASP 535 44.614 4.985 66.699 1.00 40.91 A C ATOM 4131 0 ASP 535 44.614 4.985 66.699 1.00 40.91 A C ATOM 4131 0 ASP 535 44.614 4.985 66.699 1.00 40.91 A C ATOM 4132 ND ASP 535 44.614 4.985 66.699 1.00 40.91 A C ATOM 4131 0 ASP 535 44.614 4.985 66.699 1.00 40.91 A C ATOM 4132 ND LYS 536 43.936 47.148 66.539 1.00 40.91 A C ATOM 4133 CA LYS 536 43.936 47.148 66.539 1.00 44.69 A N ATOM 4134 CB LYS 536 43.936 47.148 66.539 1.00 42.56 A C ATOM 4136 CD LYS 536 42.675 48.018 66.572 1.00 44.69 A C ATOM 4136 CD LYS 536 42.146 48.406 65.200 1.00 42.56 A C ATOM 4137 CE LYS 536 42.146 48.406 65.200 1.00 42.56 A C ATOM 4138 CD LYS 536 42.675 48.018 66.572 1.00 44.69 A C ATOM 4139 C LYS 536 42.675 48.018 66.572 1.00 44.69 A C ATOM 4130 C SER 537 45.277 45.907 68.88 1.00 42.57 A C ATOM 4140 C LYS 536 44.553 47.105 67.928 1.00 42.56 A C ATOM 4141 N SER 537 44.694 49.506 67.201 1.00 51.055 A N ATOM 4143 CB LYS 536 42.675 48.018 66.572 1.00 44.69 A C ATOM 4140 C LYS 538 48.74.949 74.99 70.513 1.00 44.99 A C ATOM 4140 C LYS 538 44.545 44.595 66.99 737 1.00 42.57 A C ATOM 4140 C LYS 538 44.546 44.566 67.91 1.00 51.05 A N ATOM 4140 C LYS 538 48.852 47.295 67.283 1.00 44.99 A C ATOM 4140 C LYS 538 48.852 47.295 68.009 1.00 44.99 A C ATOM 4140 C LYS 538 48.852 47.295 67.283 1.00 44.99 A C ATOM 4	ATOM	4116	CG	PHE	534	44. 510	45. 523	61.235	1.00 35.46	Α	
ATOM 4118 CD2 PHE 534	ATOM	4117	CD1	PHE	534	45.811	45.956	61.475	1.00 35.65	Α	
ATOM 4119 CEI PHE 534			CD2	PHE	534	43, 455	46.320	61.654	1.00 33.35	Α	С
ATOM 4120 CE2 PHE 534							47, 167	62, 124	1, 00 36, 55	Α	С
ATOM 4121 CZ PHE 534 44.990 47.957 62.541 1.00 35.35 A C ATOM 4122 C PHE 534 43.920 43.158 62.790 1.00 38.07 A C ATOM 4123 0 PHE 534 42.705 43.046 62.911 1.00 38.83 A O ATOM 4124 N ASP 535 44.725 43.435 63.810 1.00 39.27 A N ATOM 4125 CA ASP 535 44.725 43.435 63.810 1.00 39.27 A N ATOM 4126 CB ASP 535 44.725 43.435 63.810 1.00 39.27 A N ATOM 4127 CG ASP 535 44.751 42.541 66.089 1.00 43.14 A C ATOM 4127 CG ASP 535 44.751 42.541 66.089 1.00 43.14 A C ATOM 4128 0D1 ASP 535 43.704 43.668 67.912 1.00 46.19 A C ATOM 4129 0D2 ASP 535 43.704 43.668 67.912 1.00 46.19 A C ATOM 4130 C ASP 535 44.744 49.85 65.699 1.00 40.91 A C ATOM 4131 0 ASP 535 45.799 45.270 65.837 1.00 40.57 A O ATOM 4131 C ASP 535 43.399 41.499 68.092 1.00 40.91 A C ATOM 4132 N LYS 536 43.635 45.822 66.022 1.00 41.40 A N ATOM 4133 CA LYS 536 43.936 47.148 66.539 1.00 42.56 A C ATOM 4134 CB LYS 536 42.675 48.018 66.572 1.00 44.57 A O ATOM 4136 CD LYS 536 42.675 48.018 66.572 1.00 44.57 A C ATOM 4136 CD LYS 536 40.721 50.020 63.897 1.00 50.55 A C ATOM 4137 CE LYS 536 40.721 50.020 63.897 1.00 50.55 A C ATOM 4138 NZ LYS 536 40.721 50.020 63.897 1.00 50.55 A C ATOM 4137 CE LYS 536 40.721 50.020 63.897 1.00 50.55 A C ATOM 4140 0 LYS 536 44.553 47.105 67.928 1.00 42.57 A C ATOM 4143 CB SER 537 44.553 47.105 67.928 1.00 42.57 A C ATOM 4143 CB SER 537 44.553 47.105 67.928 1.00 42.57 A C ATOM 4144 CB SER 537 44.553 47.105 67.928 1.00 42.57 A C ATOM 4144 CB SER 537 44.553 47.498 46.061 70.682 1.00 44.98 A C ATOM 4144 CB SER 537 44.553 47.498 46.061 70.682 1.00 44.98 A C ATOM 4144 CB SER 537 44.553 47.295 45.206 68.013 1.00 42.57 A C ATOM 4144 CB SER 537 44.544 44.499 68.886 1.00 42.20 A O ATOM 4144 CB SER 537 45.222 43.319 69.888 1.00 42.57 A C ATOM 4144 CB SER 537 45.222 43.319 69.888 1.00 42.57 A C ATOM 4144 CB SER 537 45.222 43.319 69.888 1.00 42.57 A C ATOM 4145 CB SER 537 45.222 43.319 69.888 1.00 42.57 A C ATOM 4145 CB SER 537 45.596 66.676 67.792 1.00 44.99 A C ATOM 4146 CB SER 537 45.222 43.319 69.888 1.00 42.57 A C ATOM 4155 CB LYS 538 48.521 42.590 68											
ATOM 4122 C PHE 534 43.920 43.158 62.790 1.00 38.07 A C ATOM 4123 O PHE 534 42.705 43.046 62.911 1.00 38.83 A O ATOM 4124 N ASP 535 44.725 43.435 63.810 1.00 39.27 A N ATOM 4125 CA ASP 535 44.725 43.435 63.810 1.00 39.27 A C ATOM 4126 CB ASP 535 44.751 42.541 66.089 1.00 40.72 A C ATOM 4127 CG ASP 535 44.751 42.541 66.089 1.00 43.14 A C ATOM 4127 CG ASP 535 44.102 42.571 67.460 1.00 46.19 A C ATOM 4128 0D1 ASP 535 43.704 43.668 67.912 1.00 46.58 A O ATOM 4129 0D2 ASP 535 44.02 42.571 67.460 1.00 46.19 A C ATOM 4130 C ASP 535 44.614 44.985 65.699 1.00 40.91 A C ATOM 4131 O ASP 535 44.614 44.985 65.699 1.00 40.57 A O ATOM 4131 O ASP 535 45.799 45.270 65.837 1.00 40.57 A O ATOM 4133 CA LYS 536 43.635 45.822 66.022 1.00 41.40 A N ATOM 4133 CA LYS 536 43.936 47.148 66.539 1.00 42.56 A C ATOM 4136 CB LYS 536 42.675 48.018 66.539 1.00 42.56 A C ATOM 4136 CB LYS 536 41.156 49.566 65.289 1.00 44.69 A C ATOM 4136 CB LYS 536 41.156 49.566 65.289 1.00 42.56 A C ATOM 4137 CE LYS 536 41.156 49.566 65.289 1.00 49.52 A C ATOM 4138 NZ LYS 536 44.553 47.108 66.529 1.00 42.20 A O ATOM 4139 C LYS 536 44.553 47.100 26.85 A C ATOM 4139 C LYS 536 44.697 45.502 66.920 1.00 42.20 A O ATOM 4140 O LYS 536 44.553 47.105 68.289 1.00 42.20 A O ATOM 4141 N SER 537 44.697 45.702 69.821 1.00 44.09 A C ATOM 4141 N SER 537 44.697 45.702 69.821 1.00 44.09 A C ATOM 4141 N SER 537 45.277 45.762 69.820 1.00 44.98 A O ATOM 4144 CB SER 537 45.277 45.762 69.820 1.00 44.98 A O A ATOM 4145 CB SER 537 45.222 43.319 69.888 1.00 44.98 A O A ATOM 4146 O SER 537 45.222 43.319 69.888 1.00 44.99 A C ATOM 4146 CB SER 537 45.222 43.319 69.888 1.00 44.99 A C ATOM 4145 CB SER 537 45.222 43.319 69.888 1.00 44.99 A C ATOM 4146 CB SER 537 45.222 43.319 69.888 1.00 44.99 A C ATOM 4146 CB SER 537 45.222 43.319 69.888 1.00 44.99 A C ATOM 4146 CB SER 537 45.222 63.00 68.013 1.00 44.99 A C ATOM 4161 CB SER 537 45.227 65.693 60.00 44.09 A C ATOM 4165 CB SER 537 45.227 67.682 60.00 44.09 A C ATOM 4161 CB SER 537 45.227 65.693 60.00 44.09 A C ATOM 4161 CB SER 537 45.229 67.28											
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ATOM 4124 N ASP 535 44. 725 43. 435 63. 810 1. 00 39. 27 A N ATOM 4125 CA ASP 535 44. 206 43. 621 65. 160 1. 00 40. 72 A C ATOM 4126 CB ASP 535 44. 751 42. 541 66. 089 1. 00 43. 14 A C ATOM 4127 CG ASP 535 44. 751 42. 541 66. 089 1. 00 43. 14 A C ATOM 4128 0D1 ASP 535 43. 704 43. 668 67. 912 1. 00 46. 58 A O ATOM 4129 0D2 ASP 535 43. 999 41. 499 68. 092 1. 00 48. 00 A O ATOM 4130 C ASP 535 44. 614 44. 985 65. 699 1. 00 48. 00 A O ATOM 4131 0 ASP 535 43. 999 41. 499 68. 092 1. 00 48. 00 A O ATOM 4131 0 ASP 535 45. 799 45. 270 65. 837 1. 00 40. 57 A O ATOM 4132 N LYS 536 43. 635 45. 799 45. 270 65. 837 1. 00 40. 57 A O ATOM 4133 CA LYS 536 43. 635 45. 822 66. 022 1. 00 41. 69 A C ATOM 4135 CG LYS 536 42. 146 48. 406 65. 509 1. 00 44. 69 A C ATOM 4136 CD LYS 536 42. 146 48. 406 65. 200 1. 00 47. 06 A C ATOM 4137 CE LYS 536 42. 146 48. 406 65. 200 1. 00 47. 06 A C ATOM 4138 NZ LYS 536 42. 146 48. 406 65. 200 1. 00 47. 06 A C ATOM 4138 NZ LYS 536 42. 146 48. 406 65. 200 1. 00 47. 06 A C ATOM 4138 NZ LYS 536 42. 146 48. 406 65. 200 1. 00 47. 06 A C ATOM 4139 CZ LYS 536 42. 146 48. 406 65. 200 1. 00 47. 06 A C ATOM 4139 CZ LYS 536 44. 553 47. 105 67. 928 1. 00 42. 57 A C ATOM 4140 0 LYS 536 44. 553 47. 105 67. 928 1. 00 42. 57 A C ATOM 4140 0 LYS 536 44. 896 48. 147 68. 486 1. 00 42. 20 A O ATOM 4141 N SER 537 44. 697 45. 907 68. 486 1. 00 42. 20 A O ATOM 4141 N SER 537 44. 697 45. 907 68. 486 1. 00 42. 20 A O ATOM 4144 OS ERE 537 44. 697 45. 907 68. 486 1. 00 42. 20 A O ATOM 4144 OS ERE 537 44. 697 45. 907 68. 486 1. 00 42. 20 A O ATOM 4144 OS ERE 537 44. 697 45. 907 68. 486 1. 00 42. 20 A O ATOM 4144 OS ERE 537 44. 697 45. 907 68. 486 1. 00 42. 20 A O ATOM 4144 OS ERE 537 45. 222 43. 319 69. 888 1. 00 43. 50 A O ATOM 4146 O SER 537 45. 222 43. 319 69. 888 1. 00 44. 69 A C ATOM 4146 O SER 537 45. 222 43. 319 69. 888 1. 00 44. 69 A C ATOM 4163 CZ LYS 538 48. 824 49. 244 49. 907 65. 38 1. 00 44. 98 A O ATOM 4161 CZ LYS 538 48. 826 47. 229 67. 283 1. 00 44. 98 A O ATOM 4165 CZ LYS 538 48. 826 67. 925 67. 741 1. 00 38. 5											
ATOM 4125 CA ASP 535											
ATOM 4126 CB ASP 535	ATOM	4124	N								
ATOM 4126 CB ASP 535	ATOM	4125	CA	ASP	535	44.206	43. 621	65. 160		Α	
ATOM 4128 OD1 ASP 535		4126	CB	ASP	535	44. 751	42.541	66.089	1.00 43.14	Α	C
ATOM 4128 OD1 ASP 535						44, 102	42.571	67, 460	1,00 46,19	Α	С
ATOM 4139 ODZ ASP 535											
ATOM 4130 C ASP 535											
ATOM 4131 0 ASP 535											
ATOM 4132 N LYS 536											
ATOM 4133 CA LYS 536											
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ATOM 4135 CG LYS 536 42.146 48.406 65.200 1.00 47.06 A C ATOM 4137 CE LYS 536 41.156 49.566 65.289 1.00 49.52 A C ATOM 4137 CE LYS 536 40.721 50.020 63.897 1.00 50.85 A C ATOM 4138 NZ LYS 536 39.965 51.303 63.921 1.00 51.05 A N ATOM 4139 C LYS 536 44.553 47.105 67.928 1.00 42.57 A C ATOM 4140 0 LYS 536 44.896 48.147 68.486 1.00 42.20 A O ATOM 4141 N SER 537 44.697 45.907 68.486 1.00 42.80 A N ATOM 4142 CA SER 537 45.277 45.762 69.820 1.00 43.70 A C ATOM 4144 OG SER 537 45.222 43.319 69.888 1.00 43.50 A O ATOM 4145 C SER 537 46.796 45.696 69.737 1.00 43.50 A O ATOM 4146 0 SER 537 47.498 46.061 70.682 1.00 44.98 A O ATOM 4147 N LYS 538 47.295 45.230 68.598 1.00 44.98 A O ATOM 4149 CB LYS 538 48.729 45.110 68.380 1.00 40.13 A C ATOM 4149 CB LYS 538 48.729 45.110 68.380 1.00 41.93 A N ATOM 4150 CG LYS 538 48.821 42.590 68.013 1.00 42.24 A C ATOM 4151 CD LYS 538 48.831 40.446 67.073 1.00 41.97 A C ATOM 4151 CD LYS 538 48.834 41.466 67.073 1.00 41.97 A C ATOM 4154 C LYS 538 48.834 41.466 67.073 1.00 41.97 A C ATOM 4150 CG LYS 538 48.834 41.466 67.073 1.00 41.97 A C ATOM 4151 CD LYS 538 48.834 41.466 67.073 1.00 41.97 A C ATOM 4150 CG LYS 538 48.834 41.466 67.073 1.00 41.97 A C ATOM 4150 CG LYS 538 48.834 41.466 67.073 1.00 41.97 A C ATOM 4150 CG LYS 538 48.834 41.466 67.073 1.00 41.97 A C ATOM 4150 CG LYS 538 48.834 41.466 67.073 1.00 42.24 A C ATOM 4150 CD LYS 538 48.834 41.466 67.073 1.00 42.57 A C ATOM 4150 CD LYS 538 48.834 41.466 67.073 1.00 42.57 A C ATOM 4150 CD LYS 538 48.834 41.466 67.073 1.00 42.57 A C ATOM 4150 CD LYS 538 48.834 41.466 67.073 1.00 38.59 A C ATOM 4150 CD LYS 538 50.601 46.856 47.229 67.283 1.00 36.92 A N ATOM 4150 CD LYS 539 51.263 47.629 67.116 1.00 36.43 A C ATOM 4150 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4150 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4160 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4160 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4161 CE LYS 539 50.925 50.117 69.028 1.00 43.98 A N ATOM 4163 C LYS 539 50.925 50.117 69.028 1.00 43.98	ATOM										
ATOM 4136 CD LYS 536	ATOM	4134	$\mathbf{CB}$	LYS	536	42.675	48.018	66.572	1.00 44.69	A	С
ATOM 4136 CD LYS 536	ATOM	4135	CG	LYS	536	42. 146	48. 406	65.200	1.00 47.06	Α	С
ATOM 4137 CE LYS 536		4136	CD	LYS	536	41.156	49.566	65. 289	1.00 49.52	Α	С
ATOM 4138 NZ LYS 536									1,00 50,85		
ATOM 4139 C LYS 536										_	
ATOM 4140 0 LYS 536											
ATOM 4141 N SER 537											
ATOM 4142 CA SER 537											
ATOM 4143 CB SER 537											
ATOM 4144 OG SER 537											
ATOM 4145 C SER 537	ATOM	4143	CB							Α	
ATOM 4146 0 SER 537 47. 498 46. 061 70. 682 1. 00 44. 98 A 0 ATOM 4147 N LYS 538 47. 295 45. 230 68. 598 1. 00 41. 93 A N ATOM 4148 CA LYS 538 48. 729 45. 110 68. 380 1. 00 40. 13 A C ATOM 4149 CB LYS 538 49. 024 43. 917 67. 470 1. 00 41. 29 A C ATOM 4150 CG LYS 538 48. 521 42. 590 68. 013 1. 00 42. 24 A C ATOM 4151 CD LYS 538 48. 834 41. 446 67. 073 1. 00 41. 97 A C ATOM 4152 CE LYS 538 48. 317 40. 140 67. 638 1. 00 42. 57 A C ATOM 4153 NZ LYS 538 46. 864 40. 231 67. 960 1. 00 44. 10 A N ATOM 4154 C LYS 538 48. 526 47. 229 67. 283 1. 00 38. 59 A C ATOM 4156 N LYS 539 50. 601 46. 485 67. 725 1. 00 36. 92 A N ATOM 4157 CA LYS 539 51. 263 47. 629 67. 116 1. 00 36. 43 A C ATOM 4158 CB LYS 539 51. 263 47. 629 67. 116 1. 00 36. 43 A C ATOM 4159 CG LYS 539 51. 263 47. 629 67. 116 1. 00 37. 32 A C ATOM 4160 CD LYS 539 50. 925 50. 117 69. 028 1. 00 40. 01 A C ATOM 4161 CE LYS 539 50. 209 50. 674 70. 258 1. 00 41. 64 A C ATOM 4161 CE LYS 539 51. 121 51. 014 71. 389 1. 00 43. 98 A N ATOM 4162 NZ LYS 539 51. 121 51. 014 71. 389 1. 00 43. 98 A N ATOM 4163 C LYS 539 51. 121 51. 014 71. 389 1. 00 43. 98 A N ATOM 4163 C LYS 539 51. 124 47. 110 65. 849 1. 00 35. 38 A C	ATOM	4144	0G	SER	537	45.222	43. 319	69.888	1.00 43.50	Α	0
ATOM 4146 0 SER 537 47. 498 46.061 70.682 1.00 44.98 A 0 ATOM 4147 N LYS 538 47. 295 45. 230 68. 598 1.00 41.93 A N ATOM 4148 CA LYS 538 48. 729 45. 110 68. 380 1.00 40. 13 A C ATOM 4149 CB LYS 538 49.024 43. 917 67. 470 1.00 41. 29 A C ATOM 4150 CG LYS 538 48. 521 42. 590 68. 013 1. 00 42. 24 A C ATOM 4151 CD LYS 538 48. 834 41. 446 67. 073 1. 00 41. 97 A C ATOM 4152 CE LYS 538 48. 317 40. 140 67. 638 1. 00 42. 57 A C ATOM 4153 NZ LYS 538 46. 864 40. 231 67. 960 1. 00 44. 10 A N ATOM 4154 C LYS 538 49. 280 46. 372 67. 741 1. 00 38. 59 A C ATOM 4155 O LYS 538 48. 526 47. 229 67. 283 1. 00 38. 17 A O ATOM 4156 N LYS 539 50. 601 46. 485 67. 725 1. 00 36. 92 A N ATOM 4158 CB LYS 539 51. 263 47. 629 67. 116 1. 00 36. 43 A C ATOM 4159 CG LYS 539 51. 263 47. 629 67. 116 1. 00 36. 43 A C ATOM 4159 CG LYS 539 50. 601 46. 485 67. 725 1. 00 36. 92 A N ATOM 4150 CD LYS 539 51. 693 48. 838 69. 341 1. 00 37. 32 A C ATOM 4160 CD LYS 539 50. 925 50. 117 69. 028 1. 00 40. 01 A C ATOM 4161 CE LYS 539 50. 209 50. 674 70. 258 1. 00 41. 64 A C ATOM 4161 CE LYS 539 50. 209 50. 674 70. 258 1. 00 43. 98 A N ATOM 4162 NZ LYS 539 51. 121 51. 014 71. 389 1. 00 43. 98 A N ATOM 4163 C LYS 539 51. 121 51. 014 71. 389 1. 00 43. 98 A N ATOM 4163 C LYS 539 51. 124 47. 110 65. 849 1. 00 35. 38 A C	ATOM	4145	C	SER	537	46. 796	45.696	69.737	1.00 43.27	Α	С
ATOM 4147 N LYS 538 47. 295 45. 230 68. 598 1. 00 41. 93 A N ATOM 4148 CA LYS 538 48. 729 45. 110 68. 380 1. 00 40. 13 A C ATOM 4149 CB LYS 538 49. 024 43. 917 67. 470 1. 00 41. 29 A C ATOM 4150 CG LYS 538 48. 521 42. 590 68. 013 1. 00 42. 24 A C ATOM 4151 CD LYS 538 48. 834 41. 446 67. 073 1. 00 41. 97 A C ATOM 4152 CE LYS 538 48. 317 40. 140 67. 638 1. 00 42. 57 A C ATOM 4153 NZ LYS 538 46. 864 40. 231 67. 960 1. 00 44. 10 A N ATOM 4154 C LYS 538 48. 526 47. 229 67. 283 1. 00 38. 59 A C ATOM 4155 O LYS 538 48. 526 47. 229 67. 283 1. 00 38. 17 A O ATOM 4156 N LYS 539 50. 601 46. 485 67. 725 1. 00 36. 92 A N ATOM 4157 CA LYS 539 51. 263 47. 629 67. 116 1. 00 36. 43 A C ATOM 4158 CB LYS 539 51. 263 47. 629 67. 116 1. 00 37. 32 A C ATOM 4150 CD LYS 539 50. 925 50. 117 69. 028 1. 00 40. 01 A C ATOM 4160 CD LYS 539 50. 925 50. 117 69. 028 1. 00 40. 01 A C ATOM 4161 CE LYS 539 50. 209 50. 674 70. 258 1. 00 41. 64 A C ATOM 4161 CE LYS 539 51. 243 47. 110 65. 849 1. 00 43. 98 A N ATOM 4162 NZ LYS 539 51. 121 51. 014 71. 389 1. 00 43. 98 A N ATOM 4163 C LYS 539 51. 943 47. 110 65. 849 1. 00 35. 38 A C		4146	0	SER	537	47. 498	46.061	70.682	1.00 44.98	Α	0
ATOM 4148 CA LYS 538											
ATOM 4149 CB LYS 538											
ATOM 4150 CG LYS 538											
ATOM 4151 CD LYS 538											
ATOM 4152 CE LYS 538											
ATOM 4153 NZ LYS 538											
ATOM 4154 C LYS 538											
ATOM 4155 O LYS 538		4153									
ATOM 4156 N LYS 539 50.601 46.485 67.725 1.00 36.92 A N ATOM 4157 CA LYS 539 51.263 47.629 67.116 1.00 36.43 A C ATOM 4158 CB LYS 539 52.293 48.225 68.079 1.00 37.32 A C ATOM 4159 CG LYS 539 51.693 48.838 69.341 1.00 37.42 A C ATOM 4160 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4161 CE LYS 539 50.209 50.674 70.258 1.00 41.64 A C ATOM 4162 NZ LYS 539 51.121 51.014 71.389 1.00 43.98 A N ATOM 4163 C LYS 539 51.943 47.110 65.849 1.00 35.38 A C	ATOM	4154	C	LYS	538	49. 280				Α	C
ATOM 4156 N LYS 539 50.601 46.485 67.725 1.00 36.92 A N ATOM 4157 CA LYS 539 51.263 47.629 67.116 1.00 36.43 A C ATOM 4158 CB LYS 539 52.293 48.225 68.079 1.00 37.32 A C ATOM 4159 CG LYS 539 51.693 48.838 69.341 1.00 37.42 A C ATOM 4160 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4161 CE LYS 539 50.209 50.674 70.258 1.00 41.64 A C ATOM 4162 NZ LYS 539 51.121 51.014 71.389 1.00 43.98 A N ATOM 4163 C LYS 539 51.943 47.110 65.849 1.00 35.38 A C	ATOM	4155	0	LYS	538	48. 526	47.229	67. 283	1.00 38.17	Α	0
ATOM 4157 CA LYS 539 51.263 47.629 67.116 1.00 36.43 A C ATOM 4158 CB LYS 539 52.293 48.225 68.079 1.00 37.32 A C ATOM 4159 CG LYS 539 51.693 48.838 69.341 1.00 37.42 A C ATOM 4160 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4161 CE LYS 539 50.209 50.674 70.258 1.00 41.64 A C ATOM 4162 NZ LYS 539 51.121 51.014 71.389 1.00 43.98 A N ATOM 4163 C LYS 539 51.943 47.110 65.849 1.00 35.38 A C		4156	N	LYS		50.601	46.485	67.725	1.00 36.92	Α	N
ATOM 4158 CB LYS 539 52.293 48.225 68.079 1.00 37.32 A C ATOM 4159 CG LYS 539 51.693 48.838 69.341 1.00 37.42 A C ATOM 4160 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4161 CE LYS 539 50.209 50.674 70.258 1.00 41.64 A C ATOM 4162 NZ LYS 539 51.121 51.014 71.389 1.00 43.98 A N ATOM 4163 C LYS 539 51.943 47.110 65.849 1.00 35.38 A C										_	
ATOM 4159 CG LYS 539 51.693 48.838 69.341 1.00 37.42 A C ATOM 4160 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4161 CE LYS 539 50.209 50.674 70.258 1.00 41.64 A C ATOM 4162 NZ LYS 539 51.121 51.014 71.389 1.00 43.98 A N ATOM 4163 C LYS 539 51.943 47.110 65.849 1.00 35.38 A C											č
ATOM 4160 CD LYS 539 50.925 50.117 69.028 1.00 40.01 A C ATOM 4161 CE LYS 539 50.209 50.674 70.258 1.00 41.64 A C ATOM 4162 NZ LYS 539 51.121 51.014 71.389 1.00 43.98 A N ATOM 4163 C LYS 539 51.943 47.110 65.849 1.00 35.38 A C											ř
ATOM 4161 CE LYS 539 50.209 50.674 70.258 1.00 41.64 A C ATOM 4162 NZ LYS 539 51.121 51.014 71.389 1.00 43.98 A N ATOM 4163 C LYS 539 51.943 47.110 65.849 1.00 35.38 A C											ŗ
ATOM 4162 NZ LYS 539 51.121 51.014 71.389 1.00 43.98 A N ATOM 4163 C LYS 539 51.943 47.110 65.849 1.00 35.38 A C										_	
ATOM 4163 C LYS 539 51.943 47.110 65.849 1.00 35.38 A C											
										_	
ATOM 4164 0 LYS 539 52.699 46.137 65.893 1.00 35.49 A 0											
	ATOM	4164	U	LYS	539	52.699	46.137	65.893	1.00 35.49	Α	U

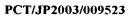
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					FI	G. 4	- 86				
ATOM	4165	N	TYR	540	51.658	47.747	64.719	1.00 33.00	Α	N	
ATOM	4166	CA	TYR	540	52. 229			1.00 30.12	Α	C	
ATOM	4167	CB	TYR	540	51.131		62. 397	1.00 28.99	Α	C	
ATOM	4168	CG	TYR	540	50. 204		62.630	1.00 29.13	Α	С	
ATOM	4169	CD1	TYR	540	49. 109	46.078		1.00 28.32	Α	С	
ATOM	4170	CE1	TYR	540	48. 254			1.00 27.13	Α	C	
ATOM	4171	CD2	TYR	540	50. 421	44.748	61.990	1.00 27.62	Α	С	
ATOM	4172	CE2	TYR	540	49. 576	43.669	62. 196	1.00 26.32	Α	C	
ATOM	4173	CZ	TYR	540	48. 495			1.00 27.64	Α	C	
ATOM	4174	OH	TYR	540	47.661			1.00 29.67	Α	0	
ATOM	4175	C	TYR	540	53. 242			1.00 29.33	Α	C	
ATOM	4176	0	TYR	540	53. 130			1.00 31.23	Α	0	
ATOM	4177	N	PR0	541	54. 270			1.00 27.71	Α	N	
ATOM	4178	CD	PRO	541	54. 717			1.00 25.95	Α	C	
ATOM	4179	CA	PR0	541	55. 238			1.00 27.56	A	C	
ATOM	4180	CB	PR0	541	56. 361			1.00 26.81	A	C	
ATOM	4181	CG	PRO	541	55. 662			1.00 25.92	A	C	
ATOM	4182	C	PRO	541	54. 463			1.00 27.83	A	C	
ATOM	4183	0	PRO	541	53. 579			1.00 28.03	A	0	
ATOM	4184	N	LEU	542	54. 763			1.00 27.70	A	N	
ATOM	4185	CA	LEU	542	54. 032			1.00 26.55	A	C	
ATOM	4186	CB	LEU	542	53. 220			1.00 26.11	A	C	
ATOM	4187	CG	LEU	542	52. 252			1.00 28.68	A	C	
ATOM	4188		LEU	542	51. 422			1.00 29.38	A	C	
ATOM	4189		LEU	542	53. 017			1.00 29.52	A	C	
ATOM	4190	C	LEU	542	54. 924			1.00 26.16	A	C	
ATOM	4191	0	LEU	542	55. 943			1.00 28.00	A	0	
ATOM	4192	N	LEU	543	54. 536			1.00 23.70	A	N	
ATOM	4193	CA	LEU	543	55. 263			1.00 24.11	A	C	
ATOM ATOM	4194 4195	CB CG	LEU LEU	543 543	55. 595			1.00 24.05	A	C	
ATOM	4195		LEU	543	56. 080 57. 209			1.00 22.45 1.00 24.00	A	C	
ATOM	4197		LEU	543	56. 537			1.00 24.00	A A	C C	
ATOM	4198	CDZ	LEU	543	54. 378			1.00 24.37	A	C	
ATOM	4199	ŏ	LEU	543	53. 283			1.00 25.72	A	Ö	
ATOM	4200	N	LEU	544	54. 857			1.00 24.80	A	N N	
ATOM	4201	CA	LEU	544	54. 098			1.00 23.74	A	C	
ATOM	4202	CB	LEU	544	54. 424			1.00 23.92	A	č	
ATOM	4203	CG	LEU	544	53. 640			1.00 22.62	A	č	
ATOM	4204		LEU	544	52. 157			1.00 24.91	A	č	
ATOM	4205		LEU	544	54. 069			1.00 24.25	A	č	
ATOM	4206	C	LEU	544	54. 403			1.00 23.24	Ä	č	
ATOM	4207	Õ	LEU	544	55. 451			1.00 23.44	A	Ŏ	
ATOM	4208	Ň	ASP	545	53. 477			1.00 21.43	A	Ň	
ATOM	4209	CA	ASP	545	53. 595			1.00 20.10	A	Ċ	
ATOM	4210	CB	ASP	545	52.570	54. 132	49. 902	1.00 20.20	Α	C	
ATOM	4211	CG	ASP	545	52.826	53.848		1.00 20.73	Α	С	
ATOM	4212		ASP	545	53. 175			1.00 22.69	Α	0	•
ATOM	4213	OD2	ASP	545	52.660	52.675	48. 044	1.00 19.91	Α	0	

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					יו בו	G. 4	- 9 7			(Continued)
		_								
ATOM	4214		ASP	545	53. 281	56. 499	50.078	1.00 20.41	Α	C
ATOM	4215	0	ASP	545	52. 149	56.949		1.00 21.14	A	0
ATOM	4216	N	VAL	546	54. 263	57. 201	49. 524	1.00 19.56	Α	N
ATOM	4217	CA	VAL	546	54.043	58. 591	49. 157	1.00 20.20	A	C
ATOM	4218	CB	VAL	546	54. 867	59. 511	50.090	1.00 20.60	Α	C
ATOM	4219		I VAL	546	54. 626	60.966	49. 753	1.00 20.01	A	C
ATOM	4220		2 VAL	546	54. 499	59. 239	51.533	1.00 21.16	A	C
ATOM	4221	C	VAL	546	54. 320	59.032	47. 723	1.00 20.28	A	C
ATOM	4222	0 N	VAL	546	55. 212	58. 513	47.048	1.00 22.79	A	0
ATOM ATOM	4223 4224	N	TYR	547	53. 524	59.994	47. 267	1.00 17.64	A	N
ATOM	4224	CA CB	TYR	547	53. 702	60.604	45.957	1.00 15.73	A	C
ATOM	4226	CG	TYR	547	52. 653	60.155	44.952	1.00 13.49	A	C
ATOM	4227	CD1	TYR TYR	547	52. 969	60.718	43.589	1.00 13.89	A	C
ATOM	4228	CE 1		547 547	52. 160	61.688	43.006	1.00 14.20	A	C
ATOM	4229		TYR	547 547	52. 513 54. 136	62. 274	41.801	1.00 13.67	A	C
ATOM	4230		TYR	547	54. 130 54. 492	60. 347 60. 926	42.921	1.00 9.92	A	C
ATOM	4231	CZ	TYR	547	53. 680	61.890	41.726	1.00 10.35	A	C
ATOM	4232	OH	TYR	547		62.474	41.167 39.973	1.00 12.20	A	C
ATOM	4233	C	TYR	547		62. 076	46. 266	1.00 14.66 1.00 14.99	A	0
ATOM	4234	ŏ	TYR	547		62.834	46. 325	1.00 14.99	A	C
ATOM	4235	Ň	ALA	548		62.456	46. 479	1.00 14.47	A	0 N
ATOM	4236	CA	ALA	548		63.806	46. 878	1.00 14.77	A A	N C
ATOM	4237	CB	ALA	548		64.109	48. 247	1.00 12.10		C
ATOM	4238	Č	ALA	548		64. 950	45. 923	1.00 11.87	A A	C
ATOM	4239	0	ALA	548		66.094	46. 346	1.00 12.24	A	0
ATOM	4240	N	GLY	549		64.660	44. 639	1.00 12.24	A	N N
ATOM	4241	CA	GLY	549		65. 734	43.696	1.00 13.20	A	C
ATOM	4242	C	GLY	549		66.578	43. 573	1.00 13.15	A	č
ATOM	4243	0	GLY	549		66.182	44.074	1.00 12.86	A	ŏ
ATOM	4244	N	PRO	550		67.745	42.915	1.00 15.91	Ä	Ň
ATOM	4245	CD	PRO	550		68.380	42.280	1.00 16.15	Ä	Ċ
ATOM	4246	CA	PRO	550	50.174	68.592	42.776	1.00 15.03	Ä	Č
ATOM	4247	CB	PR0	550		69.794	41.989	1.00 15.29	Ä	Č
ATOM	4248	CG	PRO	550		69.838	42.325	1.00 15.06	Α	C
ATOM	4249	C	PRO	550		67. 848	42.026	1.00 15.37	Α	С
ATOM	4250	0	PRO	550		67. 204	41.012	1.00 16.91	Α	0
ATOM	4251	N	CYS	551		67. 946	42.532	1.00 15.67	Α	N
ATOM	4252	CA	CYS	551		67. 287	41.944	1.00 16.54	Α	С
ATOM	4253	CB	CYS	551		67. 796		1.00 16.53	Α	С
ATOM	4254	SG	CYS	551 551		67. 314		1.00 18.29	Α	S
ATOM ATOM	4255 4256	C 0	CYS CYS	551 551		65. 766		1.00 16.83	A	C
ATOM	4250 4257	N	SER	552		55.096		1.00 20.00	A	0
ATOM	4258	CA	SER	552 552		35. 219		1.00 16.56	A	N
ATOM	4259	CB	SER	552 552		53. 785 33. 450		1.00 16.35	A	C
ATOM	4260	OG	SER	552 552		33. 450 33. 805		1.00 19.76	A	C
ATOM	4261	C	SER	552		53. 805 53. 202		1.00 20.36	A	0
ATOM	4262	ŏ	SER	552				1.00 17.72 1.00 17.55	A	C
	<b></b>	-			10.120		77. 640	1.00 17.00	Α	0

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					FΙ	G. 4	- 88			<b>, , , , , , , , , , , , , , , , , , , </b>
ATOM	4263	N	GLN	553	46.632	61.885	43. 926	1.00 17.07	Α	N
ATOM	4264	CA	GLN	553	45.628	61. 179	44.699	1.00 16.87	A	Ċ
ATOM	4265	CB	GLN	553	44. 301	61.090	43. 937	1.00 16.43	Ä	Č
ATOM	4266	CG	GLN	553	43. 249	60. 292	44. 695	1.00 19.53	Ä	Č
ATOM	4267	CD	GLN	553	41.844	60.468	44. 163	1.00 18.87	Ä	Č
ATOM	4268		GLN	553	41.520	60.019	43.066	1.00 20.67	A	0
ATOM	4269		GLN	553	40.999	61.126	44.944	1.00 18.67	Ā	N
ATOM	4270	C	GLN	553	46.123	59. 781	44. 996	1.00 18.09	A	Ċ
ATOM	4271	0	GLN	553	46.088	58. 915	44. 129	1.00 18.25	Ā	Ō
ATOM	4272	N	LYS	554	46.589	59. 562	46. 221	1.00 19.53	Ä	N
ATOM	4273	CA	LYS	554	47.075	58. 248	46.620	1.00 20.69	A	Ċ
ATOM	4274	CB	LYS	554	48.319	58. 387	47.490	1.00 22.65	A	Č
ATOM	4275	CG	LYS	554	49.538	58.887	46. 733	1.00 24.15	A	Č
ATOM	4276	CD	LYS	554	50.064	57.840	45.765	1.00 25.21	Ä	Č
ATOM	4277	CE	LYS	554	50.777	56.711	46.503	1.00 24.75	Ä	Č
ATOM	4278	NZ	LYS	554	51.472	55.796	45.560	1.00 23.89	Ä	N
ATOM	4279	C	LYS	554	45.996	57. 472	47.374	1.00 21.48	A	Ċ
ATOM	4280	0	LYS	554	46.108	56. 258	47.549	1.00 22.39	Ä	Ö
ATOM	4281	N	ALA	555	44.952	58.176	47.807	1.00 20.77	Ä	Ň
ATOM	4282	CA	ALA	555	43.849	57. 555	48.538	1.00 20.46	Ä	Ċ
ATOM	4283	CB	ALA	555	43. 525	58.376	49.768	1.00 18.05	Ä	Č
ATOM	4284	C	ALA	555	42.611	57.436	47.643	1.00 21.32	A	Č
ATOM	4285	0	ALA	555	41.996	58. 442	47. 285	1.00 21.75	A	Ö
ATOM	4286	N	ASP	556	42. 249	56. 208	47. 283	1.00 21.00	Ä	Ň
ATOM	4287	CA	ASP	556	41.096	55.981	46.419	1.00 20.04	Ä	Ĉ
ATOM	4288	CB	ASP	556	41.500	56. 151	44.960	1.00 20.02	A	č
ATOM	4289	CG	ASP	556	42.649	55. 255	44.574	1.00 19.76	A	č
ATOM	4290	0D1	ASP	556	42.723	54.132	45.115	1.00 19.65	Ä	Ŏ
ATOM	4291	0D2	ASP	556	43.470	55.666	43.723	1.00 21.90	Ā	0
ATOM	4292	C	ASP	556	40. 478	54.603	46.614	1.00 20.18	Ā	Č
ATOM	4293	0	ASP	556	40.856	53.874	47.523	1.00 19.93	Ā	Ö
ATOM	4294	N	THR	557	39. 542	54. 246	45.736	1.00 20.55	Ā	Ň
ATOM	4295	CA	THR	557	38.835	52.965	45.820	1.00 22.31	Ā	Ċ
ATOM	4296	CB	THR	557	37. 331	53. 154	45.578	1.00 21.37	A	Ċ
ATOM	4297	0G1	THR	557	37. 130	53. 580	44. 224	1.00 21.50	Α	0
ATOM	4298		THR	557	36.754	54. 201	46.523	1.00 21.28	Α	С
ATOM	4299	C	THR	557	39.294	51.898	44.826	1.00 23.72	Α	С
ATOM	4300	0	THR	557	38.606	50.891	44.633	1.00 25.32	Α	0
ATOM	4301	N	VAL	558	40. 441	52.105	44.194	1.00 22.84	Α	N
ATOM	4302	CA	VAL	558	40. 931	51.143	43. 219	1.00 22.53	Α	С
ATOM	4303	CB	VAL	558	41.970	51.802	42. 294	1.00 22.67	Α	С
ATOM	4304		VAL	558	42.540 .	50.783	41.323	1.00 19.20	Α	C
ATOM	4305		VAL	558	41.323	52.964	41.547	1.00 21.12	Α	C
ATOM	4306	C	VAL	558	41.544	49.906	43.871	1.00 23.92	Α	C
ATOM	4307	0	VAL	558	42. 246	50.005	44.871	1.00 23.71	Α.	0
ATOM	4308	N	PHE	559	41.261	48. 734	43. 312	1.00 25.05	Α	N
ATOM	4309	CA	PHE	559	41.815	47. 492	43. 841	1.00 25.45	A	С
ATOM	4310	CB	PHE	559	40. 855	46.326	43. 584	1.00 24.60	A	C
ATOM	4311	CG	PHE	559	41.476	44.977	43.808	1.00 24.75	Α	С



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										(Continued)
					FI	G. 4	- 89			
ATOM ATOM	4312 4313		PHE PHE	559 559	42. 192 41. 382	44. 352 44. 352	42. 799 45. 044	1.00 25.70 1.00 25.27	A	C C
ATOM	4314		PHE	559	42. 810	43. 118	43. 021	1.00 28.04	A A	C
ATOM	4315		PHE	559		43.125	45. 276	1.00 24.71	A	Č
ATOM	4316	CZ	PHE	559	42.709	42.507	44.266	1.00 26.38	Α	C
ATOM	4317	C	PHE	559	43. 158	47. 210	43.170	1.00 26.14	A	C
ATOM	4318	0	PHE	559	43. 250	47. 246	41.943	1.00 27.21	A	0
ATOM	4319	N	ARG	560	44.188	46. 912	43.962	1.00 24.72	A	N
ATOM ATOM	4320 4321	CA CB	ARG ARG	560 560	45. 508 46. 398	46. 644 47. 892	43. 397 43. 510	1.00 23.52 1.00 20.68	A A	C C
ATOM	4322	CG	ARG	560	45. 869	49. 140	43. 310	1.00 20.08	A	C
ATOM	4323	CD	ARG	560	46. 885	50. 285	42.869	1.00 17.64	A	Č
ATOM	4324	NE	ARG	560	46. 269	51.536	43.310	1.00 20.38	A	Ň
ATOM	4325	CZ	ARG	560	45.637	52.391	42.515	1.00 20.51	Ä	Ċ
ATOM	4326	NH1	ARG	560	45. 543	52.149	41.218	1.00 26.51	Α	N
ATOM	4327	NH2		560	45.061	53.468	43.022	1.00 20.25	Α	N
ATOM	4328	C	ARG	560	46. 274	45. 451	43. 980	1.00 24.37	A	C
ATOM	4329	0	ARG	560	46.112	45. 081	45. 145	1.00 24.84	A	0
ATOM ATOM	4330 4331	N CA	LEU LEU	561 561	47. 111 47. 968	44. 856 43. 740	43. 136	1.00 23.62	A	N C
ATOM	4332	CB	LEU	561	47. 680	42. 523	43. 511 42. 635	1. 00 20. 95 1. 00 18. 87	A A	C
ATOM	4333	CG	LEU	561	46. 283	41.916	42. 773	1.00 20.60	A	C C
ATOM	4334		LEU	561	46. 139	40. 749	41.803	1.00 19.75	A	C
<b>ATOM</b>	4335		LEU	561	46.045	41.460	44. 203	1.00 17.53	Ä	č
ATOM	4336	C	LEU	561		44.255	43.246	1.00 20.00	Ā	Č
ATOM	4337	0	LEU	561		44. 152	42.133	1.00 20.19	Α	0
ATOM	4338	N	ASN	562		44.822	44. 274	1.00 18.97	Α	N
ATOM	4339	CA	ASN	562		45. 392	44. 142	1.00 18.20	A	C
ATOM ATOM	4340 4341	CB CG	ASN ASN	562 562		46. 907	44. 028	1.00 16.72	A	C
ATOM	4342	0D1	ASN	562		47. 491 48. 610	45. 148 45. 054	1.00 17.45 1.00 19.63	A	C
ATOM	4343		ASN	562		46. 729	46. 223	1.00 19.03	A A	O N
ATOM	4344	C	ASN	562	52. 291	45. 035	45. 289	1.00 18.33	A	C
ATOM	4345	Ö	ASN	562		44. 098	46.056	1.00 19.79	Ä	ŏ
ATOM	4346	N	TRP	563		45. 793	45.400	1.00 17.98	Ä	N
ATOM	4347	CA	TRP	563		45. 548	46. 434	1.00 17.62	Α	С
ATOM	4348	CB	TRP	563		46. 537	46. 290	1.00 16.04	Α	С
ATOM	4349	CG	TRP	563		46. 249	47. 178	1.00 15.76	A	Č
ATOM ATOM	4350	CD2	TRP	563		47. 200	47. 968	1.00 13.80	A	C
ATOM	4351 4352	CE2	TRP TRP	563 563		46. 500 48. 575	48. 602	1.00 11.13	A	C
ATOM	4353	CD1		563		45. 041	48. 198 47. 361	1.00 13.46 1.00 12.65	A A	· C
ATOM	4354	NE 1	TRP	563		45. 189	48. 217	1.00 12.00	A	N N
ATOM	4355	CZ2		563		47. 128	49. 453	1.00 14.40	Ä	Č
ATOM	4356	CZ3	TRP	563	58. 252	49. 204	49.046	1.00 16.29	Ä	č
ATOM	4357	CH2		563		48. 476	49.664	1.00 14.18	Α	С
ATOM	4358	C	TRP	563		45. 672	47. 809	1.00 17.48	A	C
ATOM	4359	0 N	TRP	563		44.910	48. 720	1.00 18.93	A	0
ATOM	4360	N	ALA	564	52.813	46. 620	47. 953	1.00 16.80	Α	N

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						(Continued)
				FIG. 4-90		(Continuou)
45014	4001	CA AT A	T C A	FO 151 4C 020 40 929 1 00 17 11	٨	C
ATOM	4361	CA ALA	564	52. 151 46. 838 49. 232 1. 00 17. 11	A	C
ATOM	4362	CB ALA	564	51. 248 48. 068 49. 153 1. 00 16. 72	A	C
ATOM	4363	C ALA	564	51. 341 45. 616 49. 655 1. 00 17. 89	A	C 0
ATOM	4364	O ALA	564	51. 322 45. 256 50. 834 1. 00 15. 94	A	N N
ATOM	4365	N THR	565 565	50.676 44.983 48.691 1.00 18.77	A	
ATOM	4366	CA THR	565 565	49. 870 43. 801 48. 977 1. 00 19. 59	A	C
ATOM	4367	CB THR	565	49. 368 43. 131 47. 689 1. 00 20. 01	A	C
ATOM.	4368	OG1 THR	565	48.606 44.069 46.922 1.00 19.76	A	0
ATOM	4369	CG2 THR	565	48. 496 41. 922 48. 027 1. 00 19. 34	A	C
ATOM	4370	C THR	565	50. 718 42. 793 49. 739 1. 00 21. 27	A	C
ATOM	4371	0 THR	565	50. 290 42. 252 50. 760 1. 00 22. 29	A	0 N
ATOM	4372	N TYR	566	51. 924 42. 548 49. 234 1. 00 22. 25	A	N
ATOM	4373	CA TYR	566	52. 848 41. 615 49. 864 1. 00 23. 40	A	C
ATOM	4374	CB TYR	566	54. 029 41. 324 48. 923 1. 00 25. 18	A	C
ATOM	4375	CG TYR	566	55. 369 41. 218 49. 616 1. 00 25. 40	A	C
ATOM	4376	CD1 TYR	566	56. 297 42. 262 49. 547 1. 00 25. 62	A	C
ATOM	4377	CE1 TYR CD2 TYR	566	57. 513 42. 196 50. 226 1. 00 26. 85 55. 690 40. 101 50. 382 1. 00 26. 99	A	C
ATOM	4378	CE2 TYR	566		A	C
ATOM	4379		566		A	C
ATOM	4380	CZ TYR OH TYR	566 566	57. 809 41. 074 50. 991 1. 00 30. 16 58. 997 40. 998 51. 688 1. 00 32. 61	A	C
ATOM	4381 4382	C TYR	566 566	58. 997 40. 998 51. 688 1. 00 32. 61 53. 369 42. 116 51. 212 1. 00 23. 06	A	0
ATOM ATOM	4383	O TYR	566	53.458 41.350 52.170 1.00 21.96	A	C
ATOM	4384	N LEU	567	53.716 43.396 51.288 1.00 23.28	A	0 N
ATOM	4385	CA LEU	567	54. 237 43. 949 52. 532 1. 00 24. 50	A	N C
ATOM	4386	CR LEU	567	54. 588 45. 429 52. 359 1. 00 22. 74	A	
ATOM	4387	CG LEU	567	55.717 45.769 51.378 1.00 23.15	A	C C
ATOM	4388	CD1 LEU	567	55. 833 47. 279 51. 263 1. 00 20. 37	A A	C
ATOM	4389	CD1 LEU	567	57. 038 45. 158 51. 850 1. 00 21. 42	A	C
ATOM	4390	C LEU	567	53. 243 43. 786 53. 675 1. 00 26. 32	A	C
ATOM	4391	0 LEU	567	53. 635 43. 595 54. 824 1. 00 27. 44	A	0
ATOM	4392	N ALA	568	51. 955 43. 857 53. 361 1. 00 26. 96		N N
ATOM	4393	CA ALA	568	50. 930 43. 712 54. 383 1. 00 27. 44	A A	C
ATOM	4394	CB ALA	568	49. 684 44. 481 53. 984 1. 00 26. 54	A	C
ATOM	4395	C ALA	568	50. 584 42. 242 54. 606 1. 00 29. 12	A	C
ATOM	4396	0 ALA	568	50. 483 41. 782 55. 748 1. 00 28. 80	A	Õ
ATOM	4397	N SER	569	50.417 41.506 53.509 1.00 28.58	A	N
ATOM	4398	CA SER	569	50.062 40.094 53.586 1.00 28.31	A	C
ATOM	4399	CB SER	569	49. 750 39. 553 52. 191 1. 00 28. 85	A	č
ATOM	4400	OG SER	569	49. 420 38. 174 52. 247 1. 00 30. 69	A	Õ
ATOM	4401	C SER	569	51.110 39.204 54.236 1.00 27.43	A	C
ATOM	4402	0 SER	569	50. 800 38. 427 55. 133 1. 00 28. 44	A	0
ATOM	4403	N THR	570	52. 350 39. 311 53. 781 1.00 27. 24	A	N N
ATOM	4404	CA THR	570	53. 420 38. 483 54. 314 1. 00 27. 02	A	Č
ATOM	4405	CB THR	570	54.410 38.094 53.199 1.00 26.90	Ä	č
ATOM	4406	OG1 THR	570	53.749 37.250 52.248 1.00 27.63	Ä	ŏ
ATOM	4407	CG2 THR	570	55.611 37.369 53.774 1.00 23.88	A	Č
ATOM	4408	C THR	570	54. 203 39. 110 55. 459 1. 00 27. 34	A	č
ATOM	4409	0 THR	570	54. 362 38. 496 56. 512 1. 00 30. 01	Ä	ŏ
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(Continued) FIG. 4-91 **ATOM** 4410 N GLU 40.329 571 54.686 55. 253 1.00 26.71 N 4411 **ATOM** CA GLU 571 55.480 41.020 56.259 1.00 25.23 C **ATOM** 4412 CB **GLU** 571 56.402 42.040 55.583 1.00 24.64 C Α 4413 57.287 **ATOM** CG **GLU** 571 41.472 54.473 1.00 25.43 C Α 4414 CD **GLU** 58.238 40.392 **ATOM** 571 54.966 1.00 27.45 Α C **ATOM** OE1 GLU 58.582 4415 571 40.421 56.164 1.00 28.11 0 Α **ATOM** 4416 OE2 GLU 58.656 39.527 571 54.158 1.00 27.18 Α 0 ATOM 4417 C GLU 54.643 41.715 57.329 571 1.00 24.50 A C **ATOM** 4418 0 GLU 571 55.188 42.368 58.213 1.00 24.29 0 Α **ATOM** 4419 572 53.324 41.576 N **ASN** 57.247 1.00 24.39 N A **ATOM** 4420 ASN 572 52.425 CA 42.191 58.223 1.00 24.96 C A 52.557 ATOM 4421 CB ASN 572 41.486 59.569 1.00 25.44 Α C **ATOM** 4422 52.139 CG **ASN** 572 40.033 59.507 1.00 29.03 A C **ATOM** 4423 OD1 ASN 572 52.711 39.187 60.192 1.00 30.88 0 Α **ATOM** 4424 ND2 ASN 572 51.128 39.734 58.694 1.00 29.67 N Α **ATOM** 4425 572 52.683 43.681 C **ASN** 58.419 1.00 25.32 A C **ATOM** 4426 0 52.642 44.178 ASN 572 59.545 1.00 25.55 A 0 **ATOM** 4427 N ILE 573 52.944 44.387 57.321 1.00 25.48 N Α **ATOM** 4428 CA 573 53.208 45.824 ILE 57.360 1.00 24.87 A C **ATOM** 4429 CB ILE 54.396 573 46.198 56.446 1.00 24.59 C A 4430 CG2 ILE ATOM 573 54.715 47.669 56.584 1.00 22.90 C Α **ATOM** 4431 CG1 ILE 573 55.622 45.365 56.800 1.00 25.08 C A **ATOM** 4432 CD1 ILE 573 56.805 45.636 55.900 1.00 25.36 C Α 4433 **ATOM** C ILE 51.992 573 46.621 56.875 1.00 25.22 C Α 51.353 **ATOM** 4434 0 ILE 573 46.249 55.891 1.00 24.86 A 0 **ATOM** 4435 N ILE 574 51.681 47.718 57.557 1.00 24.59 N A **ATOM** 4436 CA ILE 574 50.557 48.555 57.159 1.00 26.14 Α C **ATOM** 4437 CB ILE 574 49.926 49.297 58.359 1.00 25.88 C Α **ATOM** 4438 CG2 ILE 574 48.798 50.190 57.874 C 1.00 26.06 Α **ATOM** 4439 CG1 ILE 574 49.399 48.304 59.386 1.00 27.36 C A CD1 ILE **ATOM** 4440 574 48.794 48.968 60.607 1.00 29.19 C A **ATOM** 4441 C ILE 574 51.064 49.619 56.191 1.00 27.12 C Α **ATOM** 4442 0 ILE 574 51.799 50.524 56.591 1.00 28.97 A 0 49.521 **ATOM** 4443 N VAL 575 50.683 54.924 1.00 25.92 A N **ATOM** 4444 CA VAL 575 51.128 50.517 53.962 1.00 24.87 Α C **ATOM** 4445 CB VAL 575 51.387 49.904 52.569 1.00 24.76 C Α **ATOM** 4446 CG1 VAL 51.973 50.966 575 51.644 1.00 20.17 C Α 52. 320 **ATOM** 4447 CG2 VAL 48.707 575 52.690 1.00 22.12 Α C **ATOM** 4448 VAL C 575 50.054 51.585 53.837 1.00 25.21 Α C **ATOM** 4449 0 VAL 575 48.929 51.312 53.405 1.00 25.63 Α 0 **ATOM** 4450 N **ALA** 50.403 52.804 576 54.216 1.00 23.75 Α N **ATOM** 4451 CA ALA 576 49.456 53.893 54. 152 1.00 23.56 Α C **ATOM** 4452 CB ALA 576 49.255 54.477 55.540 1.00 23.43 C Α **ATOM** 4453 C **ALA** 576 49.879 54.988 53.180 1.00 24.06 C Α **ATOM** 4454 0 **ALA** 576 51.056 55.139 52,860 1.00 22.16 Α 0 **ATOM** 4455 N SER 55.740 577 48.888 52.710 1.00 24.49 Α N 51.796 **ATOM** 4456 CA SER 56.852 577 49.095 1.00 23.11 C Α **ATOM** 4457 CB SER 48.793 56.428 577 50.362 1.00 23.06 C Α **ATOM** 4458 0G SER 55.475 577 49.750 49.921 1.00 22.88 0

ATOM 4459 C SER 577	FIG. 4-92											
ATOM 4461 N PHE 578 48.546 59.196 52.046 1.00 24.22 A O ATOM 4461 N PHE 578 48.546 59.196 52.046 1.00 23.49 A N ATOM 4462 CA PHE 578 47.748 60.337 52.479 1.00 21.77 A C C ATOM 4463 CB PHE 578 47.585 62.005 54.383 1.00 22.79 A C ATOM 4464 CC PHE 578 47.585 62.005 54.383 1.00 22.79 A C ATOM 4465 CD1 PHE 578 46.429 61.820 55.144 1.00 20.60 A C ATOM 4466 CD2 PHE 578 48.080 63.291 54.209 1.00 19.79 A C ATOM 4466 CD2 PHE 578 45.783 62.901 55.730 1.00 21.26 A C ATOM 4467 CE1 PHE 578 46.429 61.820 55.530 1.00 21.26 A C ATOM 4468 CE2 PHE 578 47.441 64.381 54.790 1.00 20.94 A C ATOM 4469 CZ PHE 578 46.288 64.186 55.556 1.00 20.70 A C ATOM 4470 C PHE 578 46.288 64.186 55.556 1.00 20.70 A C ATOM 4471 0 PHE 578 47.723 61.502 51.480 1.00 21.14 A C ATOM 4471 0 PHE 578 46.389 63.173 50.973 1.00 21.08 A O ATOM 4473 CA ASP 579 46.389 63.173 50.302 1.00 18.01 A C ATOM 4474 CB ASP 579 46.389 63.173 50.302 1.00 18.01 A C ATOM 4475 CG ASP 579 45.134 61.777 48.455 1.00 21.86 A C ATOM 4476 0D1 ASP 579 46.424 61.583 47.873 1.00 22.87 A O ATOM 4477 0D2 ASP 579 46.316 61.777 48.455 1.00 21.86 A C ATOM 4478 C ASP 579 46.316 61.777 48.455 1.00 21.86 A C ATOM 4478 C ASP 579 46.510 64.24 61.583 47.873 1.00 22.87 A O ATOM 4478 C ASP 579 46.316 61.074 61.777 48.455 1.00 21.86 A C ATOM 4478 C ASP 579 46.216 64.474 51.212 1.00 18.10 A C ATOM 4478 C ASP 579 46.216 64.474 51.092 1.00 18.10 A C ATOM 4478 C ASP 579 46.216 64.474 51.092 1.00 18.10 A C ATOM 4478 C ASP 579 46.216 64.474 51.092 1.00 18.10 A C ATOM 4478 C ASP 579 46.216 64.474 51.092 1.00 18.10 A C ATOM 4480 N GLY 580 47.306 65.189 51.313 1.00 17.22 A N ATOM 4480 N GLY 580 47.306 65.189 51.313 1.00 17.22 A N ATOM 4481 CA GLY 580 47.306 65.189 51.313 1.00 17.18 A O ATOM 4481 CA GLY 580 47.306 65.189 51.313 1.00 17.18 A O ATOM 4488 C B ARG 581 47.976 71.172 51.444 1.00 16.17 A C ATOM 4488 C B ARG 581 47.976 71.172 51.444 1.00 16.17 A C ATOM 4488 C B ARG 581 47.976 71.172 51.444 1.00 16.17 A C ATOM 4488 C B ARG 581 47.976 71.172 51.444 1.00 16.17 A C ATOM 4488 C B ARG 581 47.976 71.172 51.4						F 1 G. 4						
ATOM 4461 N PHE 578												
ATOM 4463 CB PHE 578 47.748 60.337 52.479 1.00 21.77 A C C ATOM 4464 CG PHE 578 48.313 60.829 53.804 1.00 21.41 A C C ATOM 4464 CG PHE 578 47.585 62.005 54.383 1.00 22.79 A C C ATOM 4465 CD1 PHE 578 46.429 61.820 55.144 1.00 20.60 A C ATOM 4466 CD2 PHE 578 48.080 63.291 54.209 1.00 19.79 A C C ATOM 4466 CD2 PHE 578 45.783 62.901 55.730 1.00 21.26 A C ATOM 4467 CE1 PHE 578 47.783 62.901 55.730 1.00 20.94 A C ATOM 4468 CE2 PHE 578 47.441 64.381 54.790 1.00 20.94 A C ATOM 4470 C PHE 578 47.723 61.502 51.480 1.00 20.70 A C ATOM 4471 0 PHE 578 47.723 61.502 51.480 1.00 21.08 A O ATOM 4471 0 PHE 578 47.766 61.909 50.973 1.00 21.08 A O ATOM 4472 N ASP 579 46.533 62.041 51.212 1.00 19.89 A N ATOM 4474 CB ASP 579 45.334 61.777 48.455 1.00 21.86 A C ATOM 4476 CB ASP 579 45.334 61.777 48.455 1.00 21.86 A C ATOM 4477 0D2 ASP 579 44.342 61.583 47.873 1.00 22.87 A O ATOM 4478 C ASP 579 44.342 61.624 48.299 1.00 23.17 A O ATOM 4478 C ASP 579 45.334 61.777 48.455 1.00 21.86 A C ATOM 4478 C ASP 579 45.346 61.074 48.299 1.00 23.17 A O ATOM 4478 C ASP 579 45.103 64.823 51.493 1.00 22.87 A O ATOM 4478 C ASP 579 45.103 64.823 51.493 1.00 22.87 A O ATOM 4478 C ASP 579 45.103 64.823 51.493 1.00 20.42 A O ATOM 4480 N GLY 580 47.306 65.189 51.313 1.00 17.22 A N ATOM 4481 CA GLY 580 47.306 65.189 51.313 1.00 17.22 A N ATOM 4481 CA GLY 580 47.238 66.439 52.044 1.00 15.14 A C ATOM 4484 N ARG 581 47.956 71.172 51.444 1.00 16.17 A C ATOM 4488 C B ARG 581 47.376 69.970 50.701 1.00 15.52 A C ATOM 4488 C B ARG 581 47.376 69.970 50.701 1.00 15.52 A C ATOM 4488 C B ARG 581 47.756 72.653 53.467 1.00 19.44 A C ATOM 4488 C B ARG 581 47.756 72.653 53.467 1.00 19.44 A C ATOM 4489 NE ARG 581 47.756 72.653 53.467 1.00 19.44 A C ATOM 4489 NE ARG 581 47.756 72.653 53.467 1.00 19.44 A C ATOM 4489 NE ARG 581 47.756 72.653 53.467 1.00 19.44 A C ATOM 4489 NE ARG 581 47.756 72.653 53.467 1.00 19.44 A C ATOM 4489 NE ARG 581 47.056 77.193 56.224 1.00 15.576 A N ATOM 4499 NH ARG 581 48.00 77.935 55.463 1.00 10.77.55 A C												
ATOM 4463 CB PHE 578												
ATOM 4464 CG PHE 578												
ATOM 4465 CD1 PHE 578												
ATOM 4466 CD2 PHE 578												
ATOM 4467 CE1 PHE 578												
ATOM 4468 CE2 PHE 578												
ATOM 4469 CZ PHE 578										C		
ATOM 4470 C PHE 578										C		
ATOM 4471 0 PHE 578												
ATOM 4472 N ASP 579												
ATOM 4473 CA ASP 579 46.389 63.173 50.302 1.00 18.01 A C ATOM 4474 CB ASP 579 45.191 62.985 49.371 1.00 17.01 A C ATOM 4475 CG ASP 579 45.334 61.777 48.455 1.00 21.86 A C ATOM 4476 OD1 ASP 579 46.424 61.583 47.873 1.00 22.87 A O ATOM 4477 OD2 ASP 579 44.342 61.024 48.299 1.00 23.17 A O ATOM 4478 C ASP 579 46.211 64.474 51.092 1.00 18.10 A C ATOM 4479 O ASP 579 45.103 64.823 51.493 1.00 20.42 A O ATOM 4480 N GLY 580 47.306 65.189 51.313 1.00 17.22 A N ATOM 4481 CA GLY 580 47.238 66.439 52.044 1.00 15.14 A C ATOM 4483 O GLY 580 47.065 67.610 51.098 1.00 16.53 A C ATOM 4483 N ARG 581 47.495 68.786 51.528 1.00 15.90 A N ATOM 4484 N ARG 581 47.377 69.970 50.701 1.00 15.52 A C ATOM 4485 CA ARG 581 47.377 69.970 50.701 1.00 15.52 A C ATOM 4487 CG ARG 581 47.377 69.970 50.701 1.00 15.52 A C ATOM 4488 CD ARG 581 47.072 71.645 52.585 1.00 16.05 A C ATOM 4488 CD ARG 581 47.072 71.645 52.585 1.00 16.05 A C ATOM 4489 NE ARG 581 47.072 71.645 52.585 1.00 16.05 A C ATOM 4489 NE ARG 581 47.072 71.645 52.585 1.00 16.05 A C ATOM 4489 NE ARG 581 47.072 71.645 52.585 1.00 16.05 A C ATOM 4489 NE ARG 581 49.321 72.624 55.375 1.00 19.44 A C ATOM 4490 CZ ARG 581 49.321 72.624 55.375 1.00 19.44 A C ATOM 4491 NH1 ARG 581 49.321 72.624 55.375 1.00 19.44 A C ATOM 4491 NH1 ARG 581 49.268 73.952 55.463 1.00 20.41 A N ATOM 4492 NH2 ARG 581 49.268 73.952 55.463 1.00 15.76 A N ATOM 4493 C ARG 581 49.268 73.952 55.463 1.00 15.76 A N ATOM 4493 C ARG 581 49.268 73.952 55.463 1.00 15.76 A N ATOM 4493 C ARG 581 49.268 73.952 55.463 1.00 15.76 A N												
ATOM 4474 CB ASP 579												
ATOM 4475 CG ASP 579												
ATOM 4476 ODI ASP 579												
ATOM 4477 OD2 ASP 579												
ATOM 4478 C ASP 579 46. 211 64. 474 51. 092 1. 00 18. 10 A C ATOM 4479 0 ASP 579 45. 103 64. 823 51. 493 1. 00 20. 42 A 0 ATOM 4480 N GLY 580 47. 306 65. 189 51. 313 1. 00 17. 22 A N ATOM 4481 CA GLY 580 47. 238 66. 439 52. 044 1. 00 15. 14 A C ATOM 4482 C GLY 580 47. 065 67. 610 51. 098 1. 00 16. 53 A C ATOM 4483 0 GLY 580 46. 544 67. 462 49. 993 1. 00 17. 18 A 0 ATOM 4484 N ARG 581 47. 495 68. 786 51. 528 1. 00 15. 90 A N ATOM 4485 CA ARG 581 47. 377 69. 970 50. 701 1. 00 15. 52 A C ATOM 4486 CB ARG 581 47. 956 71. 172 51. 444 1. 00 16. 17 A C ATOM 4487 CG ARG 581 47. 072 71. 645 52. 585 1. 00 16. 05 A C ATOM 4488 CD ARG 581 47. 756 72. 653 53. 467 1. 00 14. 87 A C ATOM 4489 NE ARG 581 48. 617 71. 990 54. 441 1. 00 18. 25 A N ATOM 4490 CZ ARG 581 49. 321 72. 624 55. 375 1. 00 19. 44 A C ATOM 4491 NH1 ARG 581 49. 268 73. 952 55. 463 1. 00 20. 41 A N ATOM 4492 NH2 ARG 581 50. 075 71. 933 56. 224 1. 00 15. 76 A N ATOM 4493 C ARG 581 48. 107 69. 742 49. 386 1. 00 17. 75 A C												
ATOM 4479 0 ASP 579 45.103 64.823 51.493 1.00 20.42 A 0 ATOM 4480 N GLY 580 47.306 65.189 51.313 1.00 17.22 A N ATOM 4481 CA GLY 580 47.238 66.439 52.044 1.00 15.14 A C ATOM 4482 C GLY 580 47.065 67.610 51.098 1.00 16.53 A C ATOM 4483 0 GLY 580 46.544 67.462 49.993 1.00 17.18 A 0 ATOM 4484 N ARG 581 47.495 68.786 51.528 1.00 15.90 A N ATOM 4485 CA ARG 581 47.377 69.970 50.701 1.00 15.52 A C ATOM 4486 CB ARG 581 47.956 71.172 51.444 1.00 16.17 A C ATOM 4487 CG ARG 581 47.072 71.645 52.585 1.00 16.05 A C ATOM 4488 CD ARG 581 47.756 72.653 53.467 1.00 14.87 A C ATOM 4489 NE ARG 581 48.617 71.990 54.441 1.00 18.25 A N ATOM 4489 NE ARG 581 49.321 72.624 55.375 1.00 19.44 A C ATOM 4491 NH1 ARG 581 49.268 73.952 55.463 1.00 20.41 A N ATOM 4492 NH2 ARG 581 50.075 71.933 56.224 1.00 15.76 A N ATOM 4493 C ARG 581 48.107 69.742 49.386 1.00 17.75 A C												
ATOM 4480 N GLY 580 47. 306 65. 189 51. 313 1. 00 17. 22 A N ATOM 4481 CA GLY 580 47. 238 66. 439 52. 044 1. 00 15. 14 A C ATOM 4482 C GLY 580 47. 065 67. 610 51. 098 1. 00 16. 53 A C ATOM 4483 O GLY 580 46. 544 67. 462 49. 993 1. 00 17. 18 A O ATOM 4484 N ARG 581 47. 495 68. 786 51. 528 1. 00 15. 90 A N ATOM 4485 CA ARG 581 47. 377 69. 970 50. 701 1. 00 15. 52 A C ATOM 4486 CB ARG 581 47. 956 71. 172 51. 444 1. 00 16. 17 A C ATOM 4487 CG ARG 581 47. 072 71. 645 52. 585 1. 00 16. 05 A C ATOM 4488 CD ARG 581 47. 756 72. 653 53. 467 1. 00 14. 87 A C ATOM 4489 NE ARG 581 48. 617 71. 990 54. 441 1. 00 18. 25 A N ATOM 4490 CZ ARG 581 49. 321 72. 624 55. 375 1. 00 19. 44 A C ATOM 4491 NH1 ARG 581 49. 321 72. 624 55. 375 1. 00 19. 44 A C ATOM 4492 NH2 ARG 581 50. 075 71. 933 56. 224 1. 00 15. 76 A N ATOM 4493 C ARG 581 48. 107 69. 742 49. 386 1. 00 17. 75 A C	ATOM	4479	0									
ATOM 4481 CA GLY 580	ATOM	4480	N	GLY	580							
ATOM 4482 C GLY 580	ATOM	4481	CA	GLY	580	47. 238 66. 439						
ATOM 4484 N ARG 581 47.495 68.786 51.528 1.00 15.90 A N ATOM 4485 CA ARG 581 47.377 69.970 50.701 1.00 15.52 A C ATOM 4486 CB ARG 581 47.956 71.172 51.444 1.00 16.17 A C ATOM 4487 CG ARG 581 47.072 71.645 52.585 1.00 16.05 A C ATOM 4488 CD ARG 581 47.756 72.653 53.467 1.00 14.87 A C ATOM 4489 NE ARG 581 48.617 71.990 54.441 1.00 18.25 A N ATOM 4490 CZ ARG 581 49.321 72.624 55.375 1.00 19.44 A C ATOM 4491 NH1 ARG 581 49.268 73.952 55.463 1.00 20.41 A N ATOM 4492 NH2 ARG 581 50.075 71.933 56.224 1.00 15.76 A N ATOM 4493 C ARG 581 48.107 69.742 49.386 1.00 17.75 A C			C			47.065 67.610	51.098	1.00 16.53				
ATOM 4485 CA ARG 581 47.377 69.970 50.701 1.00 15.52 A C ATOM 4486 CB ARG 581 47.956 71.172 51.444 1.00 16.17 A C ATOM 4487 CG ARG 581 47.072 71.645 52.585 1.00 16.05 A C ATOM 4488 CD ARG 581 47.756 72.653 53.467 1.00 14.87 A C ATOM 4489 NE ARG 581 48.617 71.990 54.441 1.00 18.25 A N ATOM 4490 CZ ARG 581 49.321 72.624 55.375 1.00 19.44 A C ATOM 4491 NH1 ARG 581 49.268 73.952 55.463 1.00 20.41 A N ATOM 4492 NH2 ARG 581 50.075 71.933 56.224 1.00 15.76 A N ATOM 4493 C ARG 581 48.107 69.742 49.386 1.00 17.75 A C							49.993		Α	0		
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ATOM 4490 CZ ARG 581 49.321 72.624 55.375 1.00 19.44 A C ATOM 4491 NH1 ARG 581 49.268 73.952 55.463 1.00 20.41 A N ATOM 4492 NH2 ARG 581 50.075 71.933 56.224 1.00 15.76 A N ATOM 4493 C ARG 581 48.107 69.742 49.386 1.00 17.75 A C												
ATOM 4491 NH1 ARG 581 49.268 73.952 55.463 1.00 20.41 A N ATOM 4492 NH2 ARG 581 50.075 71.933 56.224 1.00 15.76 A N ATOM 4493 C ARG 581 48.107 69.742 49.386 1.00 17.75 A C												
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ATOM 4493 C ARG 581 48.107 69.742 49.386 1.00 17.75 A C												
AMON 4101 0 AMO TO 100 AM 100									_			
ATTIM AAUA II AUF EST. AO 109 CO 1EO AO 9E7 1 OO 17 AO. A. O.	ATOM	4493 4494	0	ARG								
4801 4407 37 0777 500												
1 MON 1 1 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1												
1 MOV 1100 D GTT MOO												
ATUM 4498 0 GLY 582 47.673 68.757 45.017 1.00 18.99 A 0 ATOM 4499 N SER 583 46.842 67.923 46.925 1.00 18.00 A N												
ATOM 4500 CA SER 583 46.258 66.765 46.247 1.00 18.46 A C												
ATOM 4501 CB SER 583 45.842 65.700 47.269 1.00 18.34 A C												
ATOM 4502 OG SER 583 45.058 66.253 48.303 1.00 19.12 A 0												
ATOM 4503 C SER 583 45.068 67.218 45.392 1.00 18.03 A C												
ATOM 4504 0 SER 583 44.601 68.344 45.536 1.00 17.42 A 0												
ATOM 4505 N GLY 584 44.570 66.355 44.510 1.00 17.84 A N			N									
ATOM 4506 CA GLY 584 43.481 66.779 43.637 1.00 19.22 A C												
ATOM 4507 C GLY 584 42.052 66.293 43.827 1.00 19.49 A C	ATOM	4507	С	GLY	584	42.052 66.293	43.827	1.00 19.49	Α	С		

	(Continued)									
ATTOM	4500	0	OI V			G. 4				
ATOM	4508		GLY		41.724	65. 570		1.00 21.57	A	0
ATOM	4509	N	TYR		41.191	66. 735		1.00 19.76	A	N
ATOM	4510	CA	TYR		39. 782	66. 362		1.00 18.53	A	C
ATOM	4511	CB	TYR		39.673	64. 859		1.00 18.57	A	Ç
ATOM	4512	CG	TYR		40. 578	64. 401	41.550	1.00 18.83	A	Č
ATOM ATOM	4513	CD	I TYR I TYR		40. 439	64. 914	40. 260	1.00 19.48	A	C
ATOM	4514 4515		TYR		41.300	64. 533	39. 235	1.00 18.11	A	C
ATOM	4516		TYR		41.606	63. 490	41.789	1.00 19.81	A	C
ATOM	4517	CZ	TYR	585 585	42.476	63. 100	40. 769	1.00 17.71	A	C
ATOM	4518	OH	TYR	585	42. 313 43. 150	63. 626	39. 497	1.00 18.76	A	C
ATOM	4519	C	TYR	585	38. 997	63. 232 66. 751	38. 481	1.00 20.70	A	0
ATOM	4520	ő	TYR	585	38. 046	66.067	44. 152 44. 521	1.00 18.81	A	C
ATOM	4521	N	GLN	586	39. 382	67. 861	44. 783	1.00 17.85 1.00 20.25	A	0
ATOM	4522	CA	GLN	586	38. 708	68. 345	45. 986	1.00 20.25	A	N C
ATOM	4523	CB	GLN	586	39. 455	67. 886	47. 233	1.00 20.04	A	C
ATOM	4524	ĊĠ	GLN	586	39. 770	66. 412	47. 279	1.00 20.09	A A	C C
ATOM	4525	CD	GLN	586	40. 781	66. 095	48. 363	1.00 24.77	A	Č
ATOM	4526		GLN	586	40. 441	66.029	49. 548	1.00 23.60	Ä	0
ATOM	4527	NE2		586	42.044	65.919	47. 962	1.00 25.12	A	N
ATOM	4528	C	GLN	586		69.869	46.024	1.00 22.06	Ä	Č
ATOM	4529	0	GLN	586		70.455	47.092	1.00 23.83	Ä	ŏ
ATOM	4530	N	GLY	587		70.518	44.877	1.00 21.79	Ä	Ň
ATOM	4531	CA	GLY	587	38. 707	71.969	44.853	1.00 21.24	Ä	Ċ
ATOM	4532	C	GLY	587		72.623	44.883	1.00 21.56	Ä	Č
ATOM	4533	0	GLY	587		72.035	45.364	1.00 23.11	A	0
ATOM	4534	N	ASP	588		73.856	44. 397	1.00 21.25	Ā	N
ATOM	4535	CA	ASP	588		74. 580	44. 339	1.00 22.09	Α	C
ATOM	4536	CB	ASP	588		75. 763	43. 382	1.00 22.35	Α	С
ATOM	4537	CG	ASP	588	40. 944	75. 340	41.965	1.00 25.14	Α	C
ATOM	4538		ASP	588		76. 213	41.211	1.00 25.77	Α	0
ATOM ATOM	4539 4540	C C	ASP	588		74. 155	41.599	1.00 24.41	Α	0
ATOM	4540 4541	0	ASP ASP	588 588		75.079	45. 675	1.00 23.08	A	C
ATOM	4542	N	LYS	589		75.471	45. 762	1.00 22.71	A	0
ATOM	4543	CA	LYS	589		75.086	46. 716	1.00 23.77	A	N
ATOM	4544	CB	LYS	589		75.562 75.616	47. 998	1.00 22.97	A	C
ATOM	4545	CG	LYS	589		76. 173	49. 037 50. 365	1.00 24.26	A	C
ATOM	4546	CD	LYS	589		76. 141	51.439	1.00 29.68	A	C
ATOM	4547	CE	LYS	589		76. 638	52. 784	1.00 35.08 1.00 36.09	A	C
ATOM	4548	NZ	LYS	589		76.464	53. 881	1.00 36.83	A A	C
ATOM	4549	C	LYS	589		74.611	48. 468	1.00 30.83	A	N C
ATOM	4550	Ŏ	LYS	589		75. 032	49. 033	1. 00 22. 33	A	0
ATOM	4551	N	ILE	590		73. 326	48. 217	1. 00 21. 82	A	N
ATOM	4552	CA	ILE	590		72. 302		1.00 21.76	A	C
ATOM	4553	CB	ILE	590		70. 956		1.00 20.55	Ä	č
ATOM	4554	CG2		590		89. 841		1. 00 19. 40	A	č
ATOM	4555	CG1		590		1.025	50.126	1.00 21.94	Ā	Č
ATOM	4556	CD1	ILE	590	41.200	i9. 720		1.00 22.22	Α	C

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										(Continued)
					FΙ	G. 4	- 94			(COMBINATION)
ATOM	4557	С	ILE	590	44. 537	72.093	47. 562	1.00 22.32	Α	С
ATOM	4558	Ŏ	ILE	590	45. 711	71.960	47. 901	1.00 23.51	A	Ö
ATOM	4559	Ň	MET	591	44. 157	72.071	46. 291	1.00 21.59	Ä	Ň
ATOM	4560	CA	MET	591	45. 127	71.846	45. 232	1.00 21.59	Ä	Ċ
ATOM	4561	CB	MET	591	44. 406	71.567	43.917	1.00 21.80	A	Č
ATOM	4562	CG	MET	591	45. 309	71.000	42.838	1.00 21.85	A	Č
ATOM	4563	SD	MET	591	44. 403	70.746	41.309	1.00 22.76	A	S
ATOM	4564	CE	MET	591	44. 237	72.436	40. 732	1.00 22.84	A	Č
ATOM	4565	C	MET	591	46.112	72.997	45.051	1.00 21.43	A	Č
ATOM	4566	Ō	MET	591	47. 289	72.771	44. 791	1.00 19.25	A	0
ATOM	4567	Ň	HIS	592	45.636	74. 228	45. 200	1.00 21.21	A	N
ATOM	4568	CA	HIS	592	46. 502	75.386	45.035	1.00 21.43	A	Ċ
ATOM	4569	CB	HIS	592	45.713	76.560	44.455	1.00 22.32	Α	C
ATOM	4570	CG	HIS	592	45. 296	76.361	43.032	1.00 24.65	Ā	Č
ATOM	4571		HIS	592	45.604	75.390	42.139	1.00 26.25	A	Č
ATOM	4572		HIS	592	44. 471	77. 243	42.368	1.00 25.75	Ä	N
ATOM	4573		HIS	592	44. 289	76.825	41.128	1.00 25.99	Ā	C
ATOM	4574		HIS	592	44.965	75.703	40.962	1.00 25.78	Ā	N
ATOM	4575	C	HIS	592	47.197	75.817	46.319	1.00 21.38	Ä	Ĉ
ATOM	4576	0	HIS	592	47.842	76.865	46.362	1.00 20.84	A	0
ATOM	4577	N	ALA	593	47.076	75.012	47.367	1.00 21.76	Ā	N
ATOM	4578	CA	ALA	593	47. 732	75.349	48.628	1.00 20.43	Ā	C
ATOM	4579	CB	ALA	593	47. 360	74.349	49.710	1.00 18.24	A	Č
ATOM	4580	C	ALA	593	49. 241	75.361	48.427	1.00 19.92	Ā	Č
ATOM	4581	0	ALA	593	49. 940	76.126	49.081	1.00 21.91	Ā	Ō
ATOM	4582	N	ILE	594	49. 736	74.522	47.518	1.00 19.47	Α	N
ATOM	4583	CA	ILE	594	51.176	74.446	47. 248	1.00 20.49	Α	C
ATOM	4584	CB	ILE	594	51.617	73.021	46.816	1.00 19.36	Α	Ċ
ATOM	4585	CG2	ILE	594	51.467	72.051	47.966	1.00 19.38	Α	C
ATOM	4586	CG1		594	50.814	72. 581	45.590	1.00 21.33	Α	С
ATOM	4587	CD1		594	50. 951	71.106	45. 243	1.00 22.55	Α	С
ATOM	4588	C	ILE	594	51.658	75.410	46. 169	1.00 19.88	Α	С
ATOM	4589	0	ILE	594	52.849	75.434	45.854	1.00 17.79	Α	0
ATOM	4590	N	ASN	595	50. 746	76. 200	45.606	1.00 20.03	Α	N
ATOM	4591	CA	ASN	595	51. 119	77. 137	44. 547	1.00 21.76	Α	C
ATOM	4592	CB	ASN	595	49. 977		44.265	1.00 20.68	Α	C
ATOM	4593	CG	ASN	595	50. 300	79.072	43. 128	1.00 21.80	Α	C
ATOM	4594		ASN	595	50.640	78.652	42.024	1.00 22.78	Α	0
ATOM	4595		ASN	595			43. 394	1.00 22.74	Α	N
ATOM	4596	C	ASN	595	52. 395	77. 921	44.860	1.00 22.25	Α	C
ATOM	4597	0	ASN	595	52. 442		45.824	1.00 22.44	Α	0
ATOM	4598	N	ARG	596	53. 421		44.031	1.00 22.52	Α	N
ATOM	4599	CA	ARG	596	54. 726	78. 378	44. 171	1.00 22.41	A	Ċ
ATOM	4600	CB	ARG	596	54. 550	79. 898	44. 141	1.00 21.28	Ą	C
ATOM	4601	CG	ARG	596	53. 894	80. 426	42.880	1.00 21.31	A	C
ATOM	4602	CD	ARG	596	53. 398	81.856	43.096	1.00 22.01	A	C
ATOM	4603	NE C7	ARG	596	54. 479		43. 482	1.00 20.88	A	N
ATOM	4604	CZ	ARG	596	55. 467		42.671	1.00 21.35	A	C
ATOM	4605	INIT	ARG	596	55. 498	82.635	41.431	1.00 22.62	Α	N

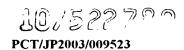
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										(Continued)
					FI	G. 4	- 95			
ATOM	4606	NH2	ARG	596	56. 427	83. 924	43.096	1.00 19.92	Α	N
ATOM	4607	C	ARG	596	55. 492	77. 982	45. 440	1.00 21.53	A	Ċ
ATOM	4608	ŏ	ARG	596	56. 482	78.611	45. 804	1.00 20.59	A	ŏ
ATOM	4609	Ň	ARG	597	55.046	76. 930	46. 107	1.00 21.66	A	Ň
ATOM	4610	CA	ARG	597	55. 705	76.512	47. 331	1.00 21.98	Ä	Ċ
ATOM	4611	CB	ARG	597	54.943	77.061	48.539	1.00 23.55	A	Č
ATOM	4612	CG	ARG	597	55. 184	78.547	48.776	1.00 28.20	Ā	Č
ATOM	4613	CD	ARG	597	56.611	78.813	49.264	1.00 30.86	Ā	Č
ATOM	4614	NE	ARG	597	56.891	80.239	49.414	1.00 34.81	A	Ň
ATOM	4615	CZ	ARG	597	57.074	81.088	48.401	1.00 36.01	Α	C
ATOM	4616	NH1	ARG	597	57.011	80.670	47.142	1.00 33.57	A	N
ATOM	4617	NH2	ARG	597	57. 326	82.365	48.650	1.00 37.36	Α	N
ATOM	4618	C	ARG	597	55.869	75.011	47.458	1.00 20.79	Α	C
ATOM	4619	0	ARG	597	55.523	74.423	48. 487	1.00 20.19	Α	0
ATOM	4620	N	LEU	598	56.400	74.398	46.404	1.00 19.44	Α	N
ATOM	4621	CA	LEU	598	56.649	72.963	46.387	1.00 18.48	Α	C
ATOM	4622	CB	LEU	598	57. 142	72.545	45.003	1.00 18.20	Α	C
ATOM	4623	CG	LEU	598	56. 119	72.007	43. 994	1.00 19.27	Α	C
ATOM	4624		LEU	598	54.800	72.731	44. 107	1.00 19.49	Α	C
ATOM	4625		LEU	598	56. 691	72.135	42.595	1.00 18.24	Α	C
ATOM	4626	C	LEU	598	57. 692	72.617	47.450	1.00 19.10	Α	C
ATOM	4627	0	LEU	598	58. 644	73. 363	47.679	1.00 19.27	Α	0
ATOM	4628	N	GLY	599	57. 506	71.485	48. 108	1.00 19.24	Α	N
ATOM	4629	CA	GLY	599	58. 440	71.090	49. 138	1.00 20.34	Α	C
ATOM	4630	C	GLY	599	58. 055	71.622	50.508	1.00 21.76	Α	С
ATOM	4631	0	GLY	599	58. 882	71.640	51.422	1.00 23.58	A	0
ATOM	4632	N	THR	600	56. 811	72.061	50.666	1.00 21.02	A	Ŋ
ATOM	4633	CA	THR	600	56. 381	72.578	51.958	1.00 21.20	A	C
ATOM	4634	CB	THR	600	56.039	74.082	51.874	1.00 21.28	A	C
ATOM	4635	0G1	THR	600	54. 887	74. 271	51.052	1.00 25.68	A	0
ATOM	4636	CG2		600	57. 192	74.856	51. 264	1.00 21.23	A	C
ATOM ATOM	4637	C	THR THR	600	55. 201	71.810	52. 557	1.00 21.38	A	C
ATOM	4638 4639	0 N	PHE	600 601	55. 386	70.724	53. 100	1.00 22.42	A	0
ATOM	4640	CA	PHE	601	53.993	72.356	52.446	1.00 21.18	A	N
ATOM	4641	CB	PHE	601	52. 809 51. 540	71. 721 72. 498	53. 022 52. 649	1.00 22.09	A	C
ATOM	4642		PHE	601	51.556	73. 935	53. 077	1.00 24.93 1.00 26.21	A	C
ATOM	4643		PHE	601	51.052	74. 923	52. 236	1.00 28.07	A	C
ATOM	4644		PHE	601	52. 105	74. 308	54. 299	1.00 26.83	A A	C
ATOM	4645		PHE	601	51.100	76. 271	52. 603	1.00 20.03	A	C
ATOM	4646		PHE	601	52. 160	75. 650	54. 680	1.00 28.02	A	C
ATOM	4647	CZ	PHE	601	51.658	76.636	53. 830	1.00 28.61	A	č
ATOM	4648	Č	PHE	601	52. 623	70. 265	52. 635	1.00 22.45	A	Č
ATOM	4649	Ö	PHE	601	52. 235	69. 451	53. 470	1.00 22.89	A	ŏ
ATOM	4650	N	GLU	602	52. 884	69. 931	51. 374	1.00 22.76	A	Ň
ATOM	4651	CA	GLU	602	52.712	68.556	50. 931	1.00 21.82	A	Ċ
ATOM	4652	CB	GLU	602	52.956		49.422	1.00 22.43	Ä	Č
ATOM	4653	CG	GLU	602	54. 396		48.974	1.00 27.44	Α	Č
ATOM	4654	CD	GLU	602	54.872	70.002	48.893	1.00 29.71	Α	С



					F	I G. 4	- 96			(Cont	inued)
ATOM ATOM	4655 4656	OE	I GLU 2 GLU	602	54. 75 55. 37	1 70.74			A A	0	
ATOM ATOM	4657 4658		GLU		53.66	3 67.65	7 51.698	8 1.00 21.67	A	C	
ATOM	4659		GLU VAL		53. 38 54. 77				A	0	
ATOM	4660				55. 77	2 67. 468			A A	N C	
ATOM	4661	CB		603	57. 159	9 68.133			A	č	
ATOM	4662		1 VAL		58. 16	5 67.369		1.00 15.00	A	Č	
ATOM ATOM	4663 4664		2 VAL		57. 603				A	C	
ATOM	4665		VAL VAL		55. 368 55. 378	8 67.350 3 66.265			A	C	
ATOM	4666		GLU		55. 009	68.481			A	0	
<b>ATOM</b>	4667	CA			<b>54.</b> 594				A A	N C	
ATOM	4668	CB	GLU		54. 322	69.964			A	č	
ATOM	4669	CG		604	55. 572	70.808	56.924	1.00 37.92	A	č	
ATOM ATOM	4670	CD	GLU	604	56. 449				Α	C	
ATOM	4671 4672		1 GLU 2 GLU	604 604	57. 505				A	0	
ATOM	4673	C	GLU	604 604	56. 083 53. 349				A	0	
ATOM	4674	Ŏ	GLU	604	53. 270				A A	C	
ATOM	4675	N	ASP	605	52. 381				A	O N	
ATOM	4676	CA	ASP	605	51.151	67.021	55. 785	1.00 25.72	A	Č	
ATOM	4677	CB	ASP	605	50.144		54.713	1.00 24.61	A	č	
ATOM ATOM	4678 4679	CG	ASP	605	49.576		54.963	1.00 23.36	Α	C	
ATOM	4680		ASP ASP	605 605	48. 677 50. 036		54. 215	1.00 23.15	A	0	
ATOM	4681	C	ASP	605	51.379	69. 499 65. 515	55. 914 55. 783	1.00 21.27 1.00 26.18	A	0	
ATOM	4682	Ō	ASP	605	50.646	64. 779	56. 439	1.00 28.35	A A	C 0	
ATOM	4683	N	GLN	606	52.394	65.051	55. 063	1.00 26.16	A	N N	
ATOM	4684	CA	GLN	606	52.704	63.627	55.056	1.00 25.29	A	Č	
ATOM	4685	CB	GLN	606	53. 788	63. 302	54.026	1.00 24.18	Ä	č	
ATOM ATOM	4686 4687	CG CD	GLN GLN	606	53. 305	63. 332	52. 596	1.00 24.92	Α	C	
ATOM	4688		GLN	606 606	52. 206 52. 373	62. 321	52. 330	1.00 24.81	A	C	
ATOM	4689		GLN	606	51.075	61. 122 62. 801	52. 560 51. 840	1.00 25.31 1.00 25.44	A	0	
ATOM	4690	C	GLN	606	53. 207	63. 268	56. 447	1.00 25.44	A A	N C	
ATOM	4691	0	GLN	606	52.838	62. 238	57.002	1.00 25.15	A	Õ	
ATOM	4692	N	ILE	607	54.059	64. 129	57.001	1.00 26.84	Ä	Ň	
ATOM ATOM	4693	CA	ILE	607	54.607	63.915	58. 337	1.00 28.30	Α	C	
ATOM	4694 4695	CB CC2	ILE ILE	607 607	55.639	65.002	58. 702	1.00 28.21	Α	C	
ATOM	4696		ILE	607	56. 165 56. 789	64. 778 64. 977	60.116	1.00 26.82	A	C	
ATOM	4697		ILE	607	57. 796	66.086	57. 694 57. 881	1.00 29.86 1.00 28.34	A	C	
ATOM	4698	C	ILE	607	53.470	63.963	59. 355	1.00 28.54	A A	C C	
ATOM	4699	0	ILE	607	53. 359	63.093	60. 226	1.00 27.80	A	0	
ATOM	4700	N	GLU	608	52.619	64.978	59. 239	1.00 30.32	Ä	Ň	
ATOM ATOM	4701 4702	CA CB	GLU	608	51.508	65.099	60.164	1.00 32.21	Α	С	
ATOM	4702		GLU GLU	608 608	50.705	66.379	59. 919	1.00 33.05	A	C	
111 0111	1,00	UU	250	VVO	49. 578	66. 581	60. 936	1.00 34.99	A	C	

				FIG 4-97	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM		CD GLU OE1 GLU OE2 GLU O GLU N ALA CA ALA CB ALA O ALA N ALA CB ALA C ALA O ALA N ALA CB ALA CA ALA CB ALA CA ALA CB ALB	608 608 608 609 609 609 610 610 610 611	FIG. 4 - 97  50.054 66.482 62.389 1.00 38.42 A 49.197 66.454 63.302 1.00 37.67 A 51.285 66.435 62.625 1.00 40.64 A 50.606 63.891 60.012 1.00 32.76 A 49.889 63.527 60.947 1.00 33.47 A 50.643 63.270 58.836 1.00 31.32 A 49.827 62.090 58.595 1.00 30.73 A 49.883 61.682 57.123 1.00 28.50 A 50.355 60.968 59.472 1.00 30.16 A 49.583 60.274 60.139 1.00 31.03 A 51.674 60.803 59.479 1.00 29.26 A 52.310 59.758 60.274 1.00 29.26 A 53.826 59.818 60.114 1.00 27.67 A 51.930 59.886 61.743 1.00 27.67 A 51.930 59.886 61.743 1.00 27.62 A 51.556 58.904 62.379 1.00 28.43 A 52.025 61.094 62.282 1.00 26.94 A 51.674 61.309 63.678 1.00 28.98	C O O C O N C C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4721 4722 4723 4724 4725 4726 4727 4728 4729 4730 4731 4732 4733 4734 4735	CB ARG CG ARG CD ARG NE ARG CZ ARG NH1 ARG NH2 ARG C ARG O ARG N GLN CA GLN CB GLN CB GLN CD GLN OE1 GLN	611 611 611 611 611 611 611 612 612 612	51.812       62.787       64.042       1.00       28.96       A         53.239       63.291       64.032       1.00       29.26       A         53.281       64.799       64.187       1.00       29.92       A         54.641       65.322       64.102       1.00       28.90       A         54.980       66.384       63.378       1.00       29.97       A         54.055       67.028       62.680       1.00       31.41       A         56.237       66.802       63.347       1.00       29.57       A         50.242       60.846       63.923       1.00       29.90       A         49.983       60.084       64.856       1.00       31.08       A         49.319       61.298       63.076       1.00       30.42       A         47.108       61.497       62.035       1.00       30.55       A         47.112       63.001       61.964       1.00       33.70       A         46.446       63.637       63.162       1.00       34.91       A         45.276       63.379       63.444       1.00       35.03       A	C C C N C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4736 4737 4738 4739 4740 4741 4742 4743 4744 4745 4746 4747 4748 4749 4750 4751 4752	NE2 GLN C GLN O GLN N PHE CA PHE CB PHE CC PHE CD1 PHE CC1 PHE CC2 PHE CC2 PHE CC2 PHE CC PHE	612 612 613 613 613 613 613 613 613 613 614 614	47. 188       64. 475       63. 875       1. 00       35. 30       A         47. 740       59. 405       63. 223       1. 00       30. 70       A         46. 993       58. 878       64. 049       1. 00       31. 56       A         48. 415       58. 698       62. 324       1. 00       30. 50       A         48. 291       57. 248       62. 301       1. 00       32. 33       A         49. 043       56. 653       61. 114       1. 00       31. 37       A         48. 537       57. 126       59. 787       1. 00       30. 49       A         47. 167       57. 171       59. 529       1. 00       30. 03       A         49. 423       57. 523       58. 793       1. 00       28. 11       A         46. 687       57. 604       58. 300       1. 00       29. 96       A         48. 954       57. 959       57. 559       1. 00       28. 75       A         47. 585       58. 001       57. 309       1. 00       28. 70       A         48. 835       56. 679       63. 597       1. 00       34. 47       A         49. 865       57. 326       64. 134       1. 00       3	N C O N C C C C C C C C C C C C C C C C

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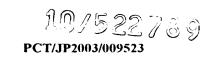
						(Continued)
					FIG. 4-98	
ATOM	4753		SER	614	52. 686 57. 477 64. 663 1. 00 38. 53 A	
ATOM ATOM	4754 4755	C 0	SER SER	614	49. 424 57. 098 66. 494 1. 00 39. 76 A	
ATOM	4756	N	LYS	614 615	49. 283 56. 276 67. 398 1. 00 41. 47 A 48. 694 58. 204 66. 413 1. 00 40. 51 A	
ATOM	4757	CA	LYS	615	48. 694 58. 204 66. 413 1. 00 40. 51 A 47. 663 58. 490 67. 400 1. 00 41. 32 A	
ATOM	4758	CB	LYS	615	47. 047 59. 870 67. 155 1. 00 42. 73 A	Č
ATOM	4759	CG	LYS	615	47. 884 61. 040 67. 642 1. 00 44. 59 A	č
ATOM	4760	CD	LYS	615	47. 064 62. 330 67. 631 1. 00 46. 18 A	Č
ATOM	4761	CE	LYS	615	47. 864 63. 511 68. 168 1. 00 46. 73 A	C
ATOM	4762	NZ	LYS	615	48. 314 63. 301 69. 577 1. 00 48. 03 A	N
ATOM	4763	C	LYS	615	46. 552 57. 441 67. 347 1. 00 40. 86 A	C
ATOM	4764	0	LYS	615	45. 794 57. 285 68. 303 1. 00 41. 94 A	0
ATOM ATOM	4765 4766	N CA	MET MET	616 616	46. 456 56. 724 66. 230 1. 00 39. 78 A	N
ATOM	4767	CB	MET	616	45. 418 55. 712 66. 065 1. 00 37. 88 A 45. 246 55. 374 64. 578 1. 00 37. 42 A	C
ATOM	4768	CG	MET	616	44 000 E0 E00 00 E00 +	C
ATOM	4769	SD	MET	616	44. 195 56. 101 62. 079 1. 00 35. 95 A	C S C C
ATOM	4770	CE	MET	616	43. 946 57. 730 61. 385 1. 00 34. 06 A	C
ATOM	4771	C	MET	616	45. 654 54. 447 66. 885 1. 00 36. 90 A	Č
ATOM	4772	0	MET	616	44. 908 53. 473 66. 772 1. 00 37. 22 A	Ö
ATOM	4773	N	GLY	617	46. 706 54. 469 67. 698 1. 00 35. 15 A	N
ATOM	4774	CA	GLY	617	47. 013 53. 355 68. 578 1. 00 32. 74 A	С
ATOM	4775	C	GLY	617	47. 445 51. 995 68. 065 1. 00 32. 72 A	C
ATOM ATOM	4776 4777	O N	GLY PHE	617	47. 806 51. 143 68. 872 1. 00 33. 71 A	0
ATOM	4778	CA	PHE	618 618	47. 409 51. 751 66. 761 1. 00 32. 52 A 47. 841 50. 447 66. 262 1. 00 31. 36 A	N
ATOM	4779	CB	PHE	618	10 701 10 770 07 100	C
ATOM	4780	CG	PHE	618	10 015 50 001 01 155	C
ATOM	4781		PHE	618	46. 743 51. 025 63. 322 1. 00 31. 61 A	C C
ATOM	4782		PHE	618	44.724 51.027 64.607 1.00 30.93 A	C
ATOM	4783		PHE	618	46. 129 51. 815 62. 349 1. 00 31. 53 A	Č
ATOM	4784		PHE	618	44. 104 51. 814 63. 642 1. 00 30. 94 A	č
ATOM	4785	CZ	PHE	618	44. 808 52. 209 62. 509 1. 00 29. 86 A	č
ATOM	4786	C	PHE	618	49. 109 50. 521 65. 404 1. 00 30. 95 A	C
ATOM	4787	0	PHE	618	49. 303 49. 735 64. 477 1. 00 30. 95 A	0
ATOM ATOM	4788 4789	N CA	VAL VAL	619	49. 982 51. 465 65. 732 1. 00 30. 23 A	Ŋ
ATOM	4790	CB	VAL	619 619	51. 226 51. 627 64. 996 1. 00 29. 99 A 51. 226 52. 928 64. 147 1. 00 29. 39 A	C
ATOM	4791	CG1	VAL	619	E0 400 E0 000 40 04E 4 00 00 E.	C
ATOM	4792	CG2		619	TO 040 TO 004 00 004	C .
ATOM	4793	C	VAL	619	50. 248 52. 804 62. 994 1. 00 26. 48 A 52. 425 51. 673 65. 931 1. 00 29. 66 A	C C
ATOM	4794	0	VAL	619	52. 400 52. 342 66. 962 1. 00 30. 05 A	0
ATOM	4795	N	ASP	620	53. 475 50. 954 65. 561 1. 00 29. 84 A	N
ATOM	4796	CA	ASP	620	54.695 50.932 66.347 1.00 29.07 A	Ĉ
ATOM	4797	CB	ASP	620	55. 563 49. 748 65. 924 1. 00 27. 94 A	C
ATOM	4798	CG	ASP	620	56. 789 49. 587 66. 794 1. 00 27. 02 A	С
ATOM	4799 4800		ASP	620	57. 191 50. 580 67. 439 1. 00 26. 38 A	0
ATOM ATOM	4800 4801	OD2 C	ASP	620 620	57. 358 48. 473 66. 818 1. 00 25. 22 A	0
AL ON	TUU 1	U	, IOI	UZU	55. 408 52. 243 66. 039 1. 00 30. 30 A	С

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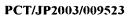
					FΙ	G. 4	- 9 9			(Continued)
ATOM	4802	0	ASP	620	56.009			1.00 29.95	Α	0
ATOM	4803	N	ASN	621	55. 330		66. 958	1.00 33.01	Α	N
ATOM	4804	CA	ASN	621	55.962		66. 746	1.00 35.15	Α	С
ATOM	4805	CB	ASN	621	55. 761		67. 975	1.00 38.29	Α	C
ATOM	4806	CG	ASN	621	56. 420			1.00 43.03	Α	C
ATOM	4807		ASN	621	57.648		69. 346	1.00 44.79	Α	0
ATOM	4808		ASN	621	55.606		70. 130	1.00 45.61	Α	N
ATOM	4809	C	ASN	621	57. 453		66. 441	1.00 35.20	Α	C
ATOM	4810	0	ASN	621	58. 083		66.004	1.00 34.67	Α	0
ATOM	4811	N	LYS	622	58.016		66.660	1.00 36.30	A	N
ATOM	4812	CA	LYS	622	59. 439		66.418	1.00 35.70	Α	C
ATOM	4813	CB	LYS	622	60.030		67. 464	1.00 37.42	A	C
ATOM	4814	CG	LYS	622	60. 148		68. 866	1.00 39.14	A	C
ATOM	4815	CD	LYS	622	60. 763		69.804	1.00 43.05	Α	C
ATOM	4816	CE	LYS	622	60. 839		71. 240	1.00 45.27	A	C
ATOM	4817	NZ	LYS	622	61.516		72. 123	1.00 45.73	Α	N
ATOM	4818	C	LYS	622	59. 762	52. 445	65.036	1.00 34.38	Α	C
ATOM	4819	0	LYS	622	60.896	52. 572	64. 571	1.00 35.67	Α	0
ATOM	4820	N	ARG	623	58. 783	51.846	64.374	1.00 31.86	Α	N
ATOM	4821	CA	ARG	623	59.030		63.046	1.00 29.60	A	С
ATOM	4822	CB	ARG	623	58. 821	49. 791	63.058	1.00 29.94	A	C
ATOM	4823	CG	ARG	623	59. 767	49.071	64.009	1.00 32.12	A	C
ATOM	4824	CD	ARG	623	59.117	47.832	64.614	1.00 33.42	Α	C
ATOM	4825	NE	ARG	623	59. 247	46.663	63. 758	1.00 34.25	Α	N
ATOM	4826	CZ	ARG	623	58. 457	45.601	63. 833	1.00 34.36	A	C
ATOM	4827	NH1	ARG	623	57. 476	45. 572	64. 725	1.00 35.41	Α	N
ATOM	4828		ARG	623	58.655	44. 571	63.021	1.00 33.15	A	N
ATOM	4829	C	ARG	623	58. 179	51.957	61.962	1.00 27.66	A	C
ATOM	4830	0	ARG	623	57. 315	51.313	61.363	1.00 27.44	A	0
ATOM	4831	N	ILE	624	58. 425	53. 241	61.720	1.00 25.16	Α	N
ATOM	4832	CA	ILE	624	57. 708	53. 977	60.685	1.00 24.70	Α	C
ATOM	4833	CB	ILE	624	57. 114	55. 298	61.224	1.00 24.52	A	C
ATOM	4834		ILE	624	56. 391	56. 025	60. 107		A	C
ATOM	4835	CG1		624	56. 136	55. 021	62. 371	1.00 24.01	A	C
ATOM	4836		ILE	624	55. 473	56. 277	62. 936	1.00 19.15	A	C
ATOM	4837	C	ILE	624	58. 667	54. 311	59. 532	1.00 24.37	A	C
ATOM	4838	0	ILE	624	59. 651	55.034	59. 709	1.00 23.38	A	0
ATOM	4839	N	ALA	625	58. 384	53. 768	58. 356	1.00 22.58	Α	N
ATOM	4840	CA	ALA	625	59. 213	54.014	57. 189	1.00 21.00	Α	С
ATOM	4841	CB	ALA	625	59.650	52.693	56. 579	1.00 20.21	Α	С
ATOM	4842	C	ALA	625	58. 430	54. 833	56. 168	1.00 21.28	A	С
ATOM	4843	0	ALA	625	57. 209	54.966	56. 275	1.00 21.90	A	0
ATOM	4844	N	ILE	626	59. 135	55. 385	55. 185	1.00 19.63	A	N
ATOM	4845	CA	ILE	626	58. 502	56.178	54. 137	1.00 18.63	A	Ċ
ATOM	4846	CB	ILE	626	58. 589	57.699	54. 446	1.00 18.98	A	C
ATOM	4847	CG2		626	60.032	58. 103	54. 694	1.00 18.36	A	C
ATOM	4848	CG1		626	57. 973	58. 501	53. 296	1.00 19.11	A	C
ATOM	4849	CD1		626	57.872	59.991	53. 562	1.00 18.34	A	C
ATOM	4850	С	ILE	626	59. 185	55.882	52.809	1.00 17.48	Α	C



										(Continued)
					FI	G. 4-	100			(002012000)
ATOM	40E1	Λ	IIE	626	60. 380	55.619	52. 776	1.00 17.10	A	0
ATOM	4851 4852	0 N	ILE TRP	627	58. 425		51.719	1.00 17.10	A	N N
ATOM			TRP	627	58. 998		50. 409	1.00 17.62	A	C
ATOM	4853	CA		627	59. 190		50. 206	1.00 16.80	A	Č
ATOM	4854	CB	TRP	627	58. 096		49. 427	1.00 10.30	A	Č
ATOM	4855	CCC	TRP	627	58. 139		48. 044	1.00 13.70	A	Č
ATOM	4856	CD2	TRP	627	56. 912		47. 749	1.00 17.30	A	Č
ATOM	4857	CE2			59. 095		47. 028	1.00 17.70	A	C
ATOM	4858		TRP	627	56. 879		49.895	1.00 13.10	A	C
ATOM	4859		TRP	627			48. 896	1.00 18.08	A	N
ATOM	4860		TRP	627	56.163					C
ATOM	4861		TRP	627	56.617		46.480	1.00 16.42	A	
ATOM	4862		TRP	627	58. 801	52.673	45. 769	1.00 14.48	A	C
ATOM	4863		TRP	627	57. 575		45. 507	1.00 14.63	A	C
ATOM	4864	C	TRP	627	58. 157		49. 275	1.00 18.48	A	C
ATOM	4865	0	TRP	627	56. 934		49. 381	1.00 18.15	A	0 N
ATOM	4866	N	GLY	628	58. 829		48. 193	1.00 18.70	A	N
ATOM	4867	CA	GLY	628	58. 140		47. 049	1.00 18.30	A	C
ATOM	4868	C	GLY	628	58. 986		45. 787	1.00 18.36	A	C
ATOM	4869	0	GLY	628	60. 212		45. 833	1.00 19.07	A	0
ATOM	4870	N	TRP	629	58. 312		44. 654	1.00 17.25	A	N
ATOM	4871	CA	TRP	629	58. 945		43. 343	1.00 15.27	A	C
ATOM	4872	CB	TRP	629	58. 306		42. 494	1.00 10.48	A	C
ATOM	4873	CG	TRP	629	59. 131	55.698	41.357	1.00 10.84	A	C
ATOM	4874		TRP	629	59. 512		41.122	1.00 9.02	A	C
ATOM	4875		TRP	629	60. 243		39. 914	1.00 10.87	A	C
ATOM	4876	CE3		629	59. 312		41.818	1.00 9.31	A	Č
ATOM	4877	CD1	TRP	629	59. 635		40. 313	1.00 10.72	A	C
ATOM	4878	NE1	TRP	629	60. 299		39. 443	1.00 10.74	Α	N
ATOM	4879		TRP	629	60. 779		39. 379	1.00 12.40	Α	C
ATOM	4880	CZ3		629	59. 842		41. 295	1.00 11.95	Α	C
ATOM	4881		TRP	629	60. 571	51.965	40.080	1.00 13.29	Α	C
ATOM	4882	C	TRP	629	58. 671	58. 722	42. 753	1.00 15.91	Α	С
ATOM	4883	0	TRP	629	57. 622	59. 300	43.012	1.00 15.58	Α	0
ATOM	4884	N	SER	630	59.612		41.983	1.00 16.99	Α	N
ATOM	4885	CA	SER	630	59. 453		41.383	1.00 16.78	Α	C
ATOM	4886	CB	SER	630	58. 258	60.644	40. 421	1.00 18.65	Α	C
ATOM	4887	0G	SER	630	58. 531	59. 987	39. 198	1.00 22.38	Α	0
ATOM	4888	C	SER	630	59. 234	61.656	42.450	1.00 16.69	Α	C
ATOM	4889	0	SER	630	60.076	61.856	43. 321	1.00 17.90	Α	0
ATOM	4890	N	TYR	631	58. 093	62.335	42.368	1.00 17.21	Α	N
ATOM	4891	CA	TYR	631	57. 737	63.362	43.335	1.00 15.51	Α	C
ATOM	4892	CB	TYR	631	56. 380		42.981	1.00 17.16	Α	C
ATOM	4893	CG	TYR	631	56.161	65.353	43. 545	1.00 18.38	Α	C
ATOM	4894	CD1	TYR	631	55. 947	65.550	44. 909	1.00 18.79	Α	C
ATOM	4895	CE1	TYR	631	55. 741	66.826	45.429	1.00 19.48	Α	С
ATOM	4896		TYR	631	56.168		42.714	1.00 18.85	Α	C
ATOM	4897		TYR	631	55.963		43. 226	1.00 19.30	Α	C
ATOM	4898	CZ	TYR	631	55.748		44.580	1.00 19.21	Α	C
ATOM	4899	OH	TYR	631	55.520	69.173	45.084	1.00 20.71	Α	0

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					E T (	~ 4 -	101			(Continued)
					rı(	G. 4-	101			
ATOM	4900	C	TYR	631	57.672	62.632	44.668	1.00 15.27	Α	С
ATOM	4901	0	TYR		57. 946	63. 201	45. 731	1.00 13.23	Α	0
ATOM	4902	N	GLY		57. 324	61.350	44. 592	1.00 14.83	Α	N
ATOM	4903	CA	GLY		57. 266	60. 529	45. 783	1.00 15.04	Α	C
ATOM	4904	C	GLY		58.653	60. 477	46. 394	1.00 14.53	Α	С
ATOM	4905	0	GLY		58.816	60.652	47. 596	1.00 13.85	Α	0
ATOM	4906	N	GLY		59.655	60. 246	45. 551	1.00 15.63	Α	N
ATOM	4907	CA	GLY		61.030	60. 185	46.014	1.00 14.69	A	Ċ
ATOM	4908	C	GLY		61.500	61.513	46. 576	1.00 15.25	A	C
ATOM	4909	0	GLY		62. 251	61.561	47. 555	1.00 16.82	A	0
ATOM	4910	N	TYR		61.058	62. 598	45. 954	1.00 13.67	Ą	N
ATOM	4911	CA	TYR		61.418	63. 940	46. 398	1.00 13.29	A	C
ATOM	4912	CB	TYR		60.901	64. 964	45. 397	1.00 11.67	A	C
ATOM	4913	CG	TYR		60.914	66. 382	45. 904	1.00 12.54	A	C
ATOM	4914		TYR		62.112	67.069	46. 072	1.00 13.46	A	C
ATOM ATOM	4915 4916		TYR TYR		62. 125	68. 398	46. 484	1.00 13.37	A	C
ATOM	4917		TYR		59. 723 59. 727	67. 057 68. 383	46. 173 46. 586	1.00 11.38 1.00 11.86	A	C
ATOM	4918	CZ	TYR		60. 933	69.049	46. 734	1.00 11.86	A	C
ATOM	4919	OH	TYR		60. 957	70. 375	47. 091	1.00 12.03	A	C 0
ATOM	4920	C	TYR		60. 829	64. 240	47. 778	1.00 12.37	A A	C
ATOM	4921	ŏ	TYR		61.524	64. 721	48. 672	1.00 14.30	A	0
ATOM	4922	Ň	VAL	635	59. 542	63. 968	47. 949	1.00 10.20	A	N
ATOM	4923	CA	VAL	635	58. 899	64. 218	49. 231	1.00 15.44	A	Č
ATOM	4924	CB	VAL	635	57.364	64. 025	49. 135	1.00 15.15	Ä	č
ATOM	4925		VAL	635	56.743	63. 988	50. 524	1.00 14.56	Ä	č
ATOM	4926		VAL	635	56.758	65. 167	48. 326	1.00 12.62	Ä	č
ATOM	4927	C	VAL	635	59.486	63. 296	50. 294	1.00 16.48	Ä	Č
ATOM	4928	0	VAL	635	59.681	63.711	51.439	1.00 16.89	Ä	Ö
ATOM	4929	N	THR	636	59.779	62.054	49.917	1.00 16.16	Ā	N .
ATOM	4930	CA	THR	636	60.368	61.098	50.855	1.00 18.40	Α	C
ATOM	4931	CB	THR	636	60. 701	59. 746	50.175	1.00 18.30	Α	С
ATOM	4932	0G1	THR	636	59. 504	59. 130	49.696	1.00 20.57	Α	0
ATOM	4933		THR	636	61.362	58.807	51.157	1.00 20.48	Α	C
ATOM	4934	C	THR		61.676	61.676	51.396	1.00 19.91	Α	C
ATOM	4935	0	THR	636	61.914	61.696	52.609	1.00 19.58	Α	0
ATOM	4936	N	SER	637	62. 524	62. 141	50.483	1.00 19.89	Ą	N
ATOM	4937	CA	SER	637	63. 804	62. 711	50.862	1.00 20.30	A	C
ATOM	4938	CB	SER	637	64. 599	63. 086	49.614	1.00 19.17	A	C
ATOM	4939	OG	SER	637	64. 823		48. 800	1.00 19.07	A	0
ATOM ATOM	4940	C	SER	637	63.615	63. 938	51.749	1.00 21.61	A	C
ATOM	4941 4942	O N	SER MET	637 638	64. 235 62. 760	64.049	52.812	1.00 22.54	A	0
ATOM	4943	CA	MET	638	62. 490	64. 855 66. 074	51.309	1.00 21.06	A	N C
ATOM	4944	CB	MET	638	61.417	66. 895	52.066 51.354	1.00 21.87	A	C
ATOM	4945	CG	MET	638	61.876	67.465	50.032	1.00 20.36 1.00 21.23	A A	C C
ATOM	4946	SD	MET	638	63.069	68. 787	50. 052	1.00 21.23	A	S
ATOM	4947	CE	MET	638	62.006	70. 229	50. 125	1.00 21.33	A	C
ATOM	4948	Č	MET	638	62.039	65. 748	53. 494	1.00 13.51	A	Č



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						_	1.0.0			(Continued)
					FIG	. 4 -	102			
ATOM	4949	0	MET	638		66. 351	54.472	1.00 19.64	A	0
ATOM	4950	N CA	VAL	639		64. 798	53.600	1.00 19.63	A	N
ATOM ATOM	4951 4952	CA CB	VAL VAL	639 639		64. 372 63. 287	54. 891 54. 746	1.00 20.04 1.00 20.08	A	C
ATOM	4952	CG1		639		62. 688	56.112	1.00 20.08	A	C
ATOM	4954		VAL	639		63. 879	54. 108	1.00 20.55	A	C C
ATOM	4955	CGZ	VAL	639		63. 793	55.692	1.00 17.95	A A	C
ATOM	4956	ŏ	VAL	639		64. 185	56.831	1.00 23.11	A	0
ATOM	4957	Ň	LEU	640		62. 864	55.088	1.00 20.83	A	N
ATOM	4958	ĊA	LEU	640		62. 225	55. 765	1.00 22.08	A	Č
ATOM	4959	CB	LEU	640		61.179	54.855	1.00 22.31	A	č
ATOM	4960	CG	LEU	640		59. 939	54. 570	1.00 21.31	Ä	č
ATOM	4961		LEU	640		59.041	53.611	1.00 22.16	A	č
ATOM	4962		LEU	640		59. 205	55.863	1.00 22.25	Ä	Č
ATOM	4963	C	LEU	640		63. 212	56.239	1.00 23.38	Ä	Č
ATOM	4964	0	LEU	640		62.922	57.182	1.00 22.99	A	0
ATOM	4965	N	GLY	641	64. 745	64.374	55.592	1.00 23.16	Α	N
ATOM	4966	CA	GLY	641		65.368	55.972	1.00 23.10	Α	С
ATOM	4967	C	GLY	641		66. 555	56.721	1.00 23.73	A	С
ATOM	4968	0	GLY	641		67. 609	56.802	1.00 23.94	Α	0
ATOM	4969	N	SER	642		66. 393	57. 278	1.00 22.74	Α	N
ATOM	4970	CA	SER	642		67. 484	58.002	1.00 20.76	Α	C
ATOM	4971	CB	SER	642		67. 370	57.883	1.00 19.77	Α	C
ATOM	4972	OG	SER	642		66. 213	58. 546	1.00 17.97	Α	0
ATOM	4973	C	SER	642		67. 488	59. 471	1.00 21.73	A	C
ATOM	4974	0	SER	642		68. 519	60.140	1.00 21.40	A	0
ATOM	4975	N	GLY	643		66. 327	59.967	1.00 22.24	A	N
ATOM	4976	CA	GLY	643		66. 213	61.350	1.00 22.64	A	C
ATOM ATOM	4977 4978	C	GLY GLY	643		65. 944	62.314	1.00 23.74	A	C
ATOM	4979	O N	SER	643 $644$		66.064	63. 528	1.00 25.32	A	0
ATOM	4980	CA	SER	644		65. 573 65. 301	61.786	1.00 23.53	A	N
ATOM	4981	CB	SER	644		64. 995	62. 616 61. 742	1.00 23.38	A	C
ATOM	4982	OG	SER	644		63. 666	61. 247	1. 00 24. 79 1. 00 24. 45	A	C
ATOM	4983	C	SER	644		64. 129	63. 559	1.00 23.18	A	0
ATOM	4984	ŏ	SER	644		63. 961	64. 536	1.00 24.28	A A	C 0
ATOM	4985	Ň	GLY	645		63. 307	63. 258	1.00 23.27	A	N N
ATOM	4986	CA	GLY	645		62. 166	64. 107	1.00 24.80	A	Č
ATOM	4987	C	GLY	645		61.175	64.114	1.00 24.80	Ä	č
ATOM	4988	0	GLY	645		60. 248	64.920	1.00 27.93	Ä	ŏ
ATOM	4989	N	VAL	646		61.357	63. 207	1.00 23.98	A	N
ATOM	4990	CA	VAL	646		60.474	63.121	1.00 22.32	Ā	Ċ
ATOM	4991	CB	VAL	646	58. 092	61.207	62.473	1.00 24.36	Ä	Č
ATOM	4992	CG1	VAL	646		60. 230	62. 215	1.00 22.37	A	Č
ATOM	4993	CG2		646		<b>52. 351</b>	63. 381	1.00 24.11	Α	C
ATOM	4994	C	VAL	646		59. 202	62.327	1.00 21.28	Α	C
ATOM	4995	0	VAL	646		58. 128	62.690	1.00 21.25	Α	0
ATOM	4996	N	PHE	647		59. 326	61. 239	1.00 21.00	A	N
ATOM	4997	CA	PHE	647	60. 593	58. 182	60. 380	1.00 18.33	Α	С

					FI	G. 4-	103			(Continued)
470014	4000	an.	DIE	0.45					•	0
ATOM	4998	CB	PHE	647	60.497		58. 924	1.00 15.79	A	C
ATOM	4999	CG	PHE	647	59.142		58. 551	1.00 16.11	A	C
ATOM	5000		PHE	647	58. 138		58. 152	1.00 15.39	Ą	C
ATOM	5001		PHE	647	58. 841	60.479	58. 680	1.00 14.43	A	C
ATOM	5002		PHE	647	56.855	58. 722	57.894	1.00 13.82	A	C
ATOM	5003		PHE	647	57. 562	60.943	58. 423	1.00 15.28	A	Ċ
ATOM	5004	CZ	PHE	647	56. 568	60.061	58.031	1.00 13.75	Α	C
ATOM	5005	C	PHE	647	61.944	57. 555	60.663	1.00 18.46	Α	C
ATOM	5006	0	PHE	647	62.943	58. 250	60.825	1.00 20.84	Α	0
ATOM	5007	N	LYS	648	61.958	56. 232	60.722	1.00 17.11	Α	N
ATOM	5008	CA	LYS	648	63.165	55.480	60.996	1.00 19.06	Α	C
ATOM	5009	CB	LYS	648	62.789	54.105	61.545	1.00 17.86	Α	C
ATOM	5010	CG	LYS	648	63.961	53. 242	61.955	1.00 17.94	Α	C
ATOM	5011	CD	LYS	648	63.484	51.869	62.405	1.00 19.57	Α	C
ATOM	5012	CE	LYS	648	64. 594	51.083	63.095	1.00 19.22	Α	C
ATOM	5013	NZ	LYS	648	65.757	50.894	62. 204	1.00 20.59	Ā	N
ATOM	5014	C	LYS	648	64.025	55. 314	59.747	1.00 21.47	A	Č
ATOM	5015	Ō	LYS	648	65. 251	55.379	59.815	1.00 23.13	Ä	Ŏ
ATOM	5016	Ň	CYS	649	63.376	55. 094	58. 610	1.00 22.38	Ä	Ň
ATOM	5017	CA	CYS	649	64.077	54. 898	57. 353	1.00 24.23	Ä	č
ATOM	5018	C	CYS	649	63. 156	55. 237	56. 181	1.00 24.09	A	č
ATOM	5019	ŏ	CYS	649	61.939	55. 319	56. 342	1.00 23.94	A	Õ
ATOM	5020	CB	CYS	649	64. 527	53. 447	57. 237	1.00 23.34	A	Č
ATOM	5021	SG	CYS	649	63. 130	52. 287	57. 313	1.00 27.03		S
ATOM	5022	N	GLY	650	63. 746	55. 426	55.004	1.00 32.03	A	N N
ATOM	5023	CA	GLY	650	62.961	55. 757	53. 834	1.00 21.00	A	
ATOM	5023	C	GLY	650	63. 649	55. 384	52. 535		A	C
ATOM	5025	Ö	GLY	650	64. 874			1.00 21.13	A	C
ATOM	5026	N	ILE	651		55. 333	52. 474	1.00 21.62	A	0
ATOM	5027	CA	ILE		62.857	55. 124	51.499	1.00 19.35	A	N
ATOM	5027	CB		651	63. 388	54. 753	50. 195	1.00 19.18	A	C
			ILE	651	62. 896	53. 352	49. 758	1.00 19.03	A	C
ATOM	5029		ILE	651	63.601	52. 933	48. 481	1.00 17.31	A	C
ATOM	5030		ILE	651	63.173	52. 326	50.853	1.00 19.60	A	C
ATOM	5031		ILE	651	62.827	50. 901	50.456	1.00 18.48	A	C
ATOM	5032	C	ILE	651	62. 953		49.120	1.00 19.53	A	C
ATOM	5033	0	ILE	651	61.758		48. 949	1.00 19.77	A	0
ATOM	5034	N	ALA	652	63. 925	56. 292	48. 393	1.00 18.34	A	N
ATOM	5035	CA	ALA	652	63. 633	57. 240	47. 324	1.00 15.69	A	Ċ
ATOM	5036	CB	ALA	652	64. 323		47. 594	1.00 14.05	A	C
ATOM	5037	C	ALA	652	64. 107		45.996	1.00 14.98	A	C
ATOM	5038	0	ALA	652	<b>65.</b> 288	56. 367	45.827	1.00 14.12	A	0
ATOM	5039	N	VAL	653	63. 175		45.064	1.00 14.68	A	Ņ
ATOM	5040		VAL	653	63.492		43. 738	1.00 14.84	A	C
ATOM	5041		VAL	653	62. 582		43. 366	1.00 17.41	A	С
ATOM	5042		VAL	653	62.865	54. 291	41.932	1.00 14.95	A	C
ATOM	5043	CG2		653	62.806	53.607	44. 352	1.00 18.10	A	C
ATOM	5044	C	VAL	653	63. 292		42.694	1.00 13.22	A	С
ATOM	5045		VAL	653	62. 224		42.620	1.00 11.12	Α	0
ATOM	5046	N	ALA	654	64. 331	57. 317	41.901	1.00 12.68	Α	N

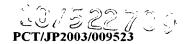
										(Continued)
					FIC	3. 4·	- 104	<u> </u>		(0011011111011)
ATOM	5047	CA	ALA	654	64. 289	58. 327	40. 845	1.00 10.68	Α	С
ATOM	5048		ALA	654	63.513	57. 790			A	č
ATOM	5049		ALA	654	63.653	59.607		1.00 10.02	Ä	Č
ATOM	5050		ALA	654	62.687	60.103		1.00 13.18	Ä	Ō
ATOM	5051	N	PRO	655	64. 208	60.179	42.420	1.00 10.68	Α	N
ATOM	5052			655	65. 319	59.696	43. 262	1.00 8.01	Α	С
ATOM	5053			655	63. 643	61.408	42.971	1.00 10.40	Α	С
ATOM	5054		PRO	655	64.092	61.344	44. 422	1.00 8.50	Α	С
ATOM	5055	CG	PRO	655	65.476	60. 822	44. 277	1.00 6.23	Α	C
ATOM	5056	C	PRO	655	64. 090	62.714	42.327	1.00 12.92	A	С
ATOM	5057	0	PRO	655	65. 166	62. 793	41.717	1.00 13.38	A	0
ATOM	5058	N	VAL	656	63. 245	63. 735	42.454	1.00 12.39	Α	N
ATOM ATOM	5059 5060	CA	VAL	656	63. 612	65.065	41.999	1.00 12.85	A	C
ATOM	5061	CB	VAL	656	62. 373	65. 946	41.769	1.00 11.42	A	C
ATOM	5062		VAL VAL	656	62. 781	67. 416	41.645	1.00 10.52	A	C
ATOM	5063	C	VAL	656 656	61.661	65. 500	40.510	1.00 10.18	A	C
ATOM	5064	0	VAL	656	64. 382 64. 038	65.560	43. 236	1.00 13.79	A	C
ATOM	5065	N	SER	657	65. 419	65. 188	44. 355	1.00 14.63	A	0
ATOM	5066	CA	SER	657	66. 174	66. 372 66. 831	43.066	1.00 14.27	A	N
ATOM	5067	CB	SER	657		66. 231	44. 238 44. 231	1.00 14.99	A	C
ATOM	5068	0G	SER	657		66. 819	44. 231	1.00 15.67	A	C
ATOM	5069	Č	SER	657		68. 343	44. 320	1.00 15.19 1.00 14.77	A	0
ATOM	5070	Ŏ	SER	657		68. 912	45.406	1.00 14.77	A	C
ATOM	5071	Ň	ARG	658		68. 978	43. 158	1.00 14.39	A	0 N
ATOM	5072	CA	ARG	658		70. 423	43. 038	1.00 16.33	A A	N
ATOM	5073	CB	ARG	658		70. 787	42.747	1.00 10.33	A	C C
ATOM	5074	CG	ARG	658		72. 274	42.582	1.00 24.34	Ä	C
ATOM	5075	CD	ARG	658		72. 450	42.025	1.00 25.38	A	C
ATOM	5076	NE	ARG	658		73. 838	41.757	1.00 25.70	A	N
ATOM	5077	CZ	ARG	658		74.683	42.676	1.00 28.34	Ä	Č
ATOM	5078		ARG	658		74. 288	43.935	1.00 28.23	Ä	Ň
ATOM	5079		ARG	658		75.916	42.329	1.00 29.55	Ä	N
ATOM	5080	C	ARG	658		70.775	41.850	1.00 15.87	Ä	Č
ATOM	5081	0	ARG	658	65. 752	70. 288	40.735	1.00 16.75	Ä	Õ
ATOM	5082	N	TRP	659		71.616	42.073	1.00 13.52	Ä	N
ATOM	5083	CA	TRP	659		71.967	40.999	1.00 13.69	Α	C
ATOM	5084	CB	TRP	659		72. 823	41.550	1.00 13.63	Α	C
ATOM	5085	CG	TRP	659		71.963	42. 341	1.00 17.48	Α	C
ATOM	5086	CD2		659		70. 898	41.829	1.00 16.63	Α	C
ATOM	5087		TRP	659		70. 313	42.927	1.00 18.08	Α	C
ATOM	5088	CE3		659		70. 382	40. 547	1.00 16.21	Α	С
ATOM	5089 5090	CD1		659		71.980	43. 692	1.00 17.21	A	C
ATOM ATOM	5090 5091	NE1 CZ2		659		70. 993	44. 050	1.00 17.37	A	Ŋ
ATOM	5091	CZ3		659		59. 233	42. 785	1.00 21.55	A	C
ATOM	5093	CH2		659 659		39. 311	40. 403	1.00 18.00	A	C
ATOM	5094	C	TRP	659		58. 746 72. 580		1.00 20.15	A	C
ATOM	5095	ŏ	TRP	659		72. 500		1.00 13.15	A	C
. 11 0113	2000	•	*14	003	00.040	4.000	00.010	1.00 11.17	Α	0

				FIG. 4-105	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5098 C 5099 C 5100 C 5101 O 5102 O 5103 C 5104 O 5105 N	CA GLU CB GLU CC GLU CD GLU DE1 GLU DE2 GLU C GLU C GLU C GLU C GLU	660 660 660 660 660 660 660 660	65. 400 73. 163 39. 871 1. 00 14. 12 A 66. 042 73. 725 38. 697 1. 00 15. 96 A 67. 147 74. 704 39. 108 1. 00 16. 83 A 66. 548 76. 001 39. 626 1. 00 19. 65 A 67. 535 76. 901 40. 313 1. 00 22. 71 A 68. 310 77. 600 39. 617 1. 00 25. 18 A 67. 527 76. 907 41. 561 1. 00 23. 59 A 66. 577 72. 635 37. 777 1. 00 15. 29 A 67. 001 72. 922 36. 659 1. 00 16. 67 A 66. 539 71. 383 38. 233 1. 00 14. 54	N C C C C O O C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5110 CI 5111 CI 5112 CI 5113 CZ 5114 OF	B TYR G TYR D1 TYR E1 TYR D2 TYR E2 TYR Z TYR	661 661 661 661 661 661 661	67. 003 70. 269 37. 399 1. 00 14. 57 A 67. 642 69. 154 38. 230 1. 00 13. 59 A 68. 878 69. 504 39. 035 1. 00 15. 73 A 69. 743 70. 531 38. 655 1. 00 13. 37 A 70. 889 70. 805 39. 390 1. 00 12. 74 A 69. 199 68. 765 40. 166 1. 00 16. 63 A 70. 338 69. 027 40. 898 1. 00 16. 03 A 71. 183 70. 041 40. 515 1. 00 13. 47 A 72. 322 70. 252 41. 267 1. 00 8. 43	C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM		TYR TYR A TYR B TYR G TYR	661 662 662 662 662 662 662 662	65. 842 69. 637 36. 608 1. 00 15. 74 A 66. 077 68. 854 35. 675 1. 00 13. 97 A 64. 602 69. 963 36. 984 1. 00 13. 28 A 63. 445 69. 390 36. 308 1. 00 13. 00 A 62. 305 69. 143 37. 308 1. 00 14. 01 A 61. 395 68. 026 36. 862 1. 00 14. 50 A 60. 010 68. 199 36. 802 1. 00 15. 74 A 59. 184 67. 201 36. 273 1. 00 14. 99	C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5124 CE 5125 CZ 5126 OH 5127 C 5128 O 5129 N 5130 CA 5131 CE	E2 TYR Z TYR H TYR TYR TYR ASP A ASP B ASP	662 662 662 662 663 663	61.122 65.830 35.873 1.00 15.13 A 59.756 66.024 35.804 1.00 15.11 A 58.983 65.060 35.214 1.00 17.05 A 62.964 70.251 35.135 1.00 12.46 A 63.320 71.423 35.030 1.00 12.22 A 62.147 69.673 34.260 1.00 12.09 A 61.686 70.394 33.076 1.00 13.20 A 60.998 69.427 32.099 1.00 11.88 A	C C C O C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM		O1 ASP O2 ASP ASP ASP SER A SER B SER	663 663 663 663 664 664 664 664	59. 668       68. 925       32. 606       1. 00       13. 51       A         59. 476       67. 692       32. 633       1. 00       14. 06       A         58. 809       69. 758       32. 962       1. 00       11. 87       A         60. 807       71. 625       33. 300       1. 00       13. 03       A         60. 036       71. 713       34. 260       1. 00       12. 71       A         60. 945       72. 576       32. 383       1. 00       12. 83       A         60. 210       73. 829       32. 425       1. 00       13. 80       A         60. 433       74. 600       31. 120       1. 00       14. 92       A         59. 996       73. 851       30. 000       1. 00       14. 78       A         59. 716       73. 632       32. 674       1. 00       13. 36       A	C 0 0 C 0 N C C
ATOM ATOM ATOM	5142 0 5143 N 5144 CA	SER VAL	664 665 665	58. 715       73. 688       32. 674       1. 00 13. 35       A         58. 234       73. 974       33. 762       1. 00 15. 82       A         57. 987       73. 247       31. 658       1. 00 13. 43       A         56. 540       73. 101       31. 733       1. 00 14. 34       A	C O N C

FIG. 4-106										
					F I	G. 4	- 106	•		
ATOM	5145						30.602	2 1.00 14.98	Α	С
ATOM	5146				54. 496				Α	С
ATOM	5147		2 VAL		56. 537				Α	C
ATOM	5148		VAL		55. 972				Α	C
ATOM	5149		VAL		55. 153	73. 302			Α	0
ATOM	5150		TYR		56. 392	71.452			Α	N
ATOM	5151	CA			55. 876	70. 948			Α	C
ATOM ATOM	5152 5153	CB			56. 323	69. 501			Α	C
ATOM	5154	CG CD:			55. 839	68. 903			A	C
ATOM	5155	CE			54. 692 54. 976	68. 119			A	Ċ
ATOM	5156		2 TYR		54. 276 56. 560	67. 517			A	C
ATOM	5157		2 TYR		56. 560 56. 154	69. 080 68. 482			A	C
ATOM	5158	CZ	TYR		55. 012	67. 700			A	C
ATOM	5159	OH	TYR		54. 609	67. 072	39. 896	1.00 15.52	A	C
ATOM	5160	Č	TYR		56. 297	71. 796	35. 998	1.00 18.37 1.00 17.89	A	0
ATOM	5161	Ŏ	TYR		55. 451	72. 200	36. 795	1.00 17.89	A	C
ATOM	5162	N	THR	667	57. 592	72. 066	36. 125	1.00 13.29	A	O N
ATOM	5163	CA	THR	667	58. 092	72. 833	37. 265	1.00 17.30	A A	
ATOM	5164	CB	THR	667	59. 621	72. 953	37. 251	1.00 13.14	A	, C C
ATOM	5165	0G1		667	60. 206	71.675	36. 968	1.00 20.18	A	0
ATOM	5166	CG2	THR	667	60. 108	73. 441	38. 604	1.00 20.16	A	C
ATOM	5167	C	THR	667	57. 537	74. 246	37. 339	1.00 21.44	Ä	Č
ATOM	5168	0	THR	667	56.916	74. 635	38. 333	1.00 21.51	A	Ö
ATOM	5169	N	GLU	668	57. 778	75.011	36. 280	1.00 21.85	Ä	Ň
ATOM	5170	CA	GLU	668	57. 330	76.389	36. 200	1.00 21.18	Ä	Ċ
ATOM	5171	CB	GLU	668	57. 746	76.976	34.859	1.00 20.69	A	č
ATOM	5172	CG	GLU	668	59. 251	77.096	34. 703	1.00 20.20	Ā	č
ATOM	5173	CD	GLU	668	59.657	77. 559	33. 322	1.00 19.55	Ā	Č
ATOM	5174		GLU	668	58. 783	78.068	32. 588	1.00 19.49	Α	0
ATOM	5175		GLU	668	60. 851	77. 422	32.977	1.00 18.34	Α	0
ATOM	5176	C	GLU	668	55. 828	76. 517	36. 394	1.00 21.50	Α	С
ATOM ATOM	5177	0	GLU	668	55. 339	77. 559	36.814	1.00 22.31	Α	0
ATOM	5178 5179	N CA	ARG	669	55. 098	75. 449	36. 101	1.00 21.90	Α	N
ATOM	5180	CB	ARG ARG	669 669	53.648	75. 458	36. 249	1.00 21.18	A	С
ATOM	5181	CG	ARG	669	53. 060 51. 546	74. 121	35. 786	1.00 22.06	A	C
ATOM	5182	CD	ARG	669	51.546	74. 026	35. 922	1.00 21.37	A	C
ATOM	5183	NE	ARG	669	51.085 51.467	72.625	35.653	1.00 20.85	A	C
ATOM	5184	CZ	ARG	669	51.467	72. 187 70. 918	34. 319	1.00 21.84	A	N
ATOM	5185		ARG	669	51.522	69. 962	33. 981	1.00 21.10	A	C
ATOM	5186	NH2		669	52.018	70.610	34. 888 32. 741	1.00 19.62	A	N
ATOM	5187	C	ARG	669	53. 246	75. 706	37. 695	1.00 20.23 1.00 21.23	A	N C
ATOM	5188	Ŏ	ARG	669	52. 209	76. 306	37. 957	1.00 21.23	A	C
ATOM	5189	Ň	TYR	670	54.067	75. 239	38. 631	1.00 20.45	A A	0 N
ATOM	5190	CA	TYR	670	53. 771	75. 409	40.047	1.00 21.03	A	N C
ATOM	5191	CB	TYR	670	53. 752	74. 048	40. 764	1.00 21.10	A	C
ATOM	5192	CG	TYR	670		72. 930	39. 972	1.00 20.47	A	C
ATOM	5193	CD1	TYR	670		71.995	39.310	1.00 20.74	Ä	č
				_						



					FIC	G. 4-	107			(Continued)
ATOM	5194		TYR	670	53. 321	70. 985	38. 537	1.00 22.18	A	C
ATOM	5195		TYR	670	51.726	72.831	39.850	1.00 19.78	A	C
ATOM	5196		TYR	670	51.139	71.831	39.079	1.00 19.87	A	C C
ATOM	5197	CZ OH	TYR TYR	670	51.944 51.388	70. 911 69. 931	38. 422 37. 623	1.00 22.17 1.00 23.11	A A	0
ATOM	5198 5199	C	TYR	670 670	54. 769	76.317	40.757	1.00 23.11	A	Č
ATOM ATOM	5200	0	TYR	670	54. 442	76. 937	41.763	1.00 23.32	A	ŏ
ATOM	5200 5201	N	MET	671	55. 983	76. 404	40. 228	1.00 24.66	A	N
ATOM	5202	CA	MET	671	57.029	77. 207	40.851	1.00 23.96	A	Č
ATOM	5203	CB	MET	671	58. 327	76. 400	40. 905	1.00 24.00	A	č
ATOM	5204	CG	MET	671	58. 288	75. 215	41.852	1.00 23.55	Ä	Č
ATOM	5205	SD	MET	671	58. 383	75. 732	43. 565	1.00 24.97	Ä	S
ATOM	5206	CE	MET	671	60.159	75.998	43.721	1.00 21.94	Α	C
ATOM	5207	C	MET	671	57.330	78. 547	40.203	1.00 24.00	Α	C
ATOM	5208	0	MET	671	58.101	79. 331	40.756	1.00 25.98	Α	0
ATOM	5209	N	GLY	672	56.741	78.822	39.045	1.00 22.07	Α	N
ATOM	5210	CA	GLY	672	57.044	80.076	38. 379	1.00 22.40	Α	С
ATOM	5211	C	GLY	672	58.472	80. 028	37. 857	1.00 22.69	Α	C
ATOM	5212	0	GLY	672	59.005	78. 947	37. 641	1.00 23.27	A	0
ATOM	5213	N	LEU	673	59. 108	81.180	37.667	1.00 22.65	A	N
ATOM	5214	CA	LEU	673	60.477	81. 209	37. 151	1.00 20.90	A	C
ATOM	5215	CB	LEU	673	60.626	82. 356	36. 164	1.00 19.50	Ą	C
ATOM	5216	CG	LEU	673	59. 639	82. 282	35.010	1.00 19.96	A	C
ATOM	5217		LEU	673	59. 779	83. 513	34. 147	1.00 20.87	A	C
ATOM	5218		LEU	673	59.892	81.027	34. 203	1.00 21.63	A	C
ATOM	5219	C	LEU	673	61.528	81.344	38. 248	1.00 21.08	A	C
ATOM ATOM	5220 5221	O N	LEU	673	61.313 62.692	82. 028 80. 700	39. 239 38. 072	1.00 21.87 1.00 21.90	A	0 N
ATOM	5222	CD	PRO PRO	674 674	63. 050	79. 803	36.968	1.00 21.90	A	N C
ATOM	5223	CA	PRO	674	63. 780	80. 747	39.050	1.00 21.10	A A	C
ATOM	5224	CB	PRO	674	64. 618	79. 510	38.709	1.00 23.23	A	Č
ATOM	5225	CG	PRO	674	63. 803	78. 755	37. 695	1.00 22.34	A	Č
ATOM	5226	C	PRO	674	64.617	82. 023	38. 943	1.00 24.90	A	Č
ATOM	5227	ŏ	PRO	674	65. 841	81.977	39. 028	1.00 26.10	Ä	ŏ
ATOM	5228	Ň	THR	675	63.966	83. 158	38. 743	1.00 25.88	A	N
ATOM	5229	CA	THR	675	64. 695	84.411	38.640	1.00 27.60	Ā	Č
ATOM	5230	CB	THR	675	64.208	85. 237	37.447	1.00 27.12	A	Č
ATOM	5231	0G1	THR	675	62.811	85.524	37.599	1.00 29.30	Α	0
ATOM	5232	CG2	THR	675	64.431	84.471	36.156	1.00 25.59	Α	C
ATOM	5233	C	THR	675	64.496	85.211	39.918	1.00 28.74	Α	С
ATOM	5234	0	THR	675	63. 543	84.982	40.660	1.00 29.47	Α	0
ATOM	5235	N	PRO	676	65.404	86. 156	40. 200	1.00 29.41	A	N
ATOM	5236	CD	PRO	676	66.625	86.508	39. 457	1.00 28.96	A	C
ATOM	5237	CA	PRO	676	65. 284	86.969	41.411	1.00 29.70	A	C
ATOM	5238	CB	PRO	676	66. 465	87. 929	41.299	1.00 28.87	A	C
ATOM	5239	CG	PRO	676	67. 467	87.142	40. 533	1.00 28.27	A	C
ATOM	5240	C	PRO	676	63. 948	87. 707	41.484	1.00 30.03	A	C
ATOM	5241	0 N	PRO	676 677	63. 359	87. 829	42.558	1.00 29.93	A	0 N
ATOM	5242	N	GLU	677	63.463	88. 190	40. 343	1.00 30.62	Α	N



(Continued)

					FIC	G. 4-	108			(Co:
ATOM	5243	CA	GLU	677	62. 203	88. 923	40. 348	1.00 30.92	Α	С
ATOM	5244	CB	GLU	677	62.192	90.013	39.264	1.00 32.38	Α	C
ATOM	5245	CG	GLU	677	62.103	89. 536	37.821	1.00 34.78	Α	C
ATOM	5246	CD	GLU	677	63. 380	88. 877	37. 331	1.00 37.04	Α	C
ATOM	5247	0E1	GLU	677	64. 480	89. 356	37.697	1.00 35.11	Α	0
ATOM	5248	0E2		677	63. 276	87. 891	36.566	1.00 37.80	A	0
ATOM	5249	C	GLU	677	60. 952	88. 065	40. 231	1.00 30.10	A	C
ATOM	5250	0	GLU	677	59. 893	88. 564	39.849	1.00 31.67	A	0
ATOM	5251	N	ASP	678	61.067	86.777	40.546	1.00 28.40 1.00 26.09	A	N
ATOM ATOM	5252 5253	CA CB	ASP ASP	678 678	59. 906 59. 833	85. 897 85. 048	40. 523 39. 253	1.00 25.88	A A	C
ATOM	5253 5254	CG	ASP	678	58. 472	84. 359	39. 097	1.00 28.22	A	C
ATOM	5255	0D1	ASP	678	57. 885	83. 980	40.128	1.00 28.64	Ä	ő
ATOM	5256	OD2		678	57. 980	84. 189	37. 956	1.00 28.80	A	ŏ
ATOM	5257	C	ASP	678	59. 920	84. 982	41.737	1.00 25.86	Ä	č
ATOM	5258	Ŏ	ASP	678	59. 481	85. 382	42.810	1.00 28.55	A	Ō
ATOM	5259	N	ASN	679	60.442	83.768	41.591	1.00 23.97	Α	N
ATOM	5260	CA	ASN	679	60.443	82. 835	42.708	1.00 21.47	Α	C
ATOM	5261	CB	ASN	679	59.326	81.818	42.496	1.00 19.41	Α	C
ATOM	5262	CG	ASN	679	58. 894	81.146	43. 778	1.00 19.58	Α	C
ATOM	5263	0D1	ASN	679	58. 491	79. 981	43.775	1.00 20.44	A	0
ATOM	5264	ND2		679	58. 957	81.879	44. 882	1.00 18.70	A	N
ATOM	5265	C	ASN	679	61.760	82. 099	42.957	1.00 21.79	A	C
ATOM	5266	0	ASN	679	61.770	81.055	43.601	1.00 21.89	A	0
ATOM	5267	N CA	LEU	680	62.873	82.636	42. 472	1.00 24.38	A	И.
ATOM ATOM	5268 5269	CA CB	LEU LEU	680 680	64. 164 65. 316	81. 967 82. 842	42. 665 42. 157	1.00 26.33 1.00 26.74	A	C
ATOM	5270	CG	LEU	680	66. 726	82. 275	42. 137	1.00 28.22	A A	C
ATOM	5271		LEU	680	66. 844	80. 903	41.747	1.00 28.22	A	Č
ATOM	5272		LEU	680	67. 772	83. 211	41.801	1.00 29.33	A	Č
ATOM	5273	C	LEU	680	64. 449	81.556	44. 109	1.00 27.18	A	č
ATOM	5274	Ŏ	LEU	680	64. 977	80. 471	44. 347	1.00 28.31	Ä	ŏ
ATOM	5275	N	ASP	681	64.111	82.411	45.072	1.00 27.79	Ā	Ň
ATOM	5276	CA	ASP	681	64.360	82.091	46.475	1.00 28.03	A	C
ATOM	5277	CB	ASP	681	63.836	83. 196	47.394	1.00 30.36	Α	C
ATOM	5278	CG	ASP	681	64.774	84. 386	47.473	1.00 34.23	Α	С
ATOM	5279	0D1	ASP	681	65. 908	84. 289	46. 952	1.00 35.59	Α	0
ATOM	5280	OD2	ASP	681	64. 380	85. 417	48.067	1.00 36.71	A	0
ATOM	5281	C	ASP	681	63. 773	80.753	46. 920	1.00 27.55	A	C
ATOM	5282	0	ASP	681	64. 428	80.005	47.647	1.00 28.05	A	0
ATOM	5283 5284	N CA	HIS	682	62. 551	80.438	46. 502	1.00 25.37	A	N
ATOM ATOM	5285	CA CB	HIS HIS	682 682	61.981 60.456	79. 164 79. 161	46. 913 46. 801	1.00 25.07 1.00 25.14	A	C
ATOM	5286	CG	HIS	682	59. 832	77.914	47. 349	1.00 23.14	A A	C C
ATOM	5287	CD2		682	59. 091	76. 948	46. 754	1.00 27.18	A	Č
ATOM	5288	ND1		682	60.021	77. 503	48. 650	1.00 26.29	A	N
ATOM	5289	CE1		682	59. 428	76. 336	48. 832	1.00 26.61	Ä	Ĉ
ATOM	5290	NE2		682	58.857	75.977	47.697	1.00 25.03	Ä	Ň
ATOM	5291	C	HIS	682	62.559	77. 983	46.130	1.00 24.30	A	C

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	(Continued)
FIG. 4-109	(Continued)
ATOM 5292 0 HIS 682 62.463 76.837 46.572 1.00 23.47	7 A O
ATOM 5293 N TYR 683 63.144 78.258 44.966 1.00 23.49	
ATOM 5294 CA TYR 683 63.768 77.208 44.157 1.00 22.64	
ATOM 5295 CB TYR 683 64.249 77.758 42.812 1.00 20.68	
ATOM 5296 CG TYR 683 63.291 77.594 41.655 1.00 19.28	
ATOM 5297 CD1 TYR 683 63.325 76.461 40.857 1.00 16.29	
ATOM 5298 CE1 TYR 683 62.464 76.317 39.783 1.00 16.83	
ATOM 5299 CD2 TYR 683 62.361 78.589 41.347 1.00 20.47	
ATOM 5300 CE2 TYR 683 61.495 78.453 40.276 1.00 20.17	
ATOM 5301 CZ TYR 683 61.554 77.314 39.500 1.00 19.09	
ATOM 5302 OH TYR 683 60.695 77.176 38.441 1.00 21.54	
ATOM 5303 C TYR 683 64.989 76.727 44.924 1.00 22.32	
ATOM 5304 0 TYR 683 65.189 75.533 45.125 1.00 22.65	5 A O
ATOM 5305 N ARG 684 65.799 77.685 45.355 1.00 22.44	A N
ATOM 5306 CA ARG 684 67.025 77.392 46.076 1.00 22.97	7 A C
ATOM 5307 CB ARG 684 67.928 78.624 46.071 1.00 22.89	A C
ATOM 5308 CG ARG 684 68.349 79.064 44.672 1.00 24.57	7 A C
ATOM 5309 CD ARG 684 69.238 78.020 44.004 1.00 23.11	
ATOM 5310 NE ARG 684 69.328 78.223 42.562 1.00 25.47	
ATOM 5311 CZ ARG 684 69.844 79.299 41.974 1.00 27.89	
ATOM 5312 NH1 ARG 684 70.337 80.294 42.703 1.00 29.09	
ATOM 5313 NH2 ARG 684 69.846 79.388 40.648 1.00 27.04	
ATOM 5314 C ARG 684 66.807 76.922 47.501 1.00 22.90	
ATOM 5315 0 ARG 684 67.711 76.368 48.111 1.00 24.16	
ATOM 5316 N ASN 685 65.608 77.121 48.030 1.00 24.64	
ATOM 5317 CA ASN 685 65.331 76.715 49.399 1.00 24.41	
ATOM 5318 CB ASN 685 64.599 77.831 50.134 1.00 28.42	
ATOM 5319 CG ASN 685 64.455 77.547 51.610 1.00 34.24	
ATOM 5320 OD1 ASN 685 65.410 77.117 52.266 1.00 38.25	
ATOM 5321 ND2 ASN 685 63. 264 77. 791 52. 150 1. 00 37. 49	
ATOM 5322 C ASN 685 64.545 75.419 49.537 1.00 23.72	
ATOM 5323 0 ASN 685 64.356 74.929 50.649 1.00 23.86	
ATOM 5324 N SER 686 64.101 74.852 48.417 1.00 21.55	
ATOM 5325 CA SER 686 63.336 73.613 48.457 1.00 19.71	
ATOM 5326 CB SER 686 61.976 73.811 47.774 1.00 19.20	
ATOM 5327 OG SER 686 62.114 74.112 46.397 1.00 15.00	
ATOM 5328 C SER 686 64.060 72.421 47.823 1.00 20.13 ATOM 5329 O SER 686 63.447 71.611 47.128 1.00 21.27	
ATOM 5331 CA THR 687 66.122 71.189 47.509 1.00 17.15 ATOM 5332 CB THR 687 67.441 71.665 46.906 1.00 16.10	
ATOM 5332 CB THR 687 68.362 71.959 47.960 1.00 17.42	
ATOM 5334 CG2 THR 687 67.214 72.920 46.058 1.00 14.71	
ATOM 5335 C THR 687 66.433 70.153 48.585 1.00 15.79	
ATOM 5336 0 THR 687 66.496 70.466 49.763 1.00 15.82	
ATOM 5337 N VAL 688 66.627 68.908 48.182 1.00 18.43	
ATOM 5338 CA VAL 688 66.935 67.854 49.147 1.00 17.92	
ATOM 5339 CB VAL 688 66.840 66.453 48.480 1.00 17.13	
ATOM 5340 CG1 VAL 688 67.092 65.352 49.503 1.00 15.01	

FIG. 4-110										(Continued)
ATOM	E0.41	00	O WAT	400						
ATOM	5341		2 VAL	688	65. 459	66. 279		1.00 18.49	A	C
ATOM	5342		VAL	688	68. 341	68.059		1.00 17.50	A	C
ATOM	5343		VAL	688	68. 559	67. 905		1.00 15.69	A	0
ATOM ATOM	5344		MET	689	69. 280	68. 428		1.00 16.92	A	N
ATOM	5345 5346	CA	MET	689	70.672	68. 647		1.00 17.40	A	C
ATOM	5347	CB CG	MET MET	689	71.475	69. 213		1.00 13.91	A	C
ATOM	5348	SD	MET	689	71.829	68. 210	46. 984	1.00 10.55	A	C
ATOM	5349	CE	MET	689 689	70. 465	67. 740	45. 909	1.00 11.73	A	S
ATOM	5350	CE	MET	689	70. 338	69. 210	44. 871	1.00 9.36	A	C
ATOM	5351	0	MET	689	70. 897	69. 539	50. 479	1.00 17.90	A	C
ATOM	5352	N	SER	690	71.721	69. 220	51.341	1.00 16.90	A	0
ATOM	5353	CA	SER	690	70. 179 70. 358	70.653	50.569	1.00 18.32	A	N
ATOM	5354	CB	SER	690	69. 621	71. 544 72. 866	51.712	1.00 21.65	A	C
ATOM	5355	OG	SER	690	68. 234	72. 702	51.501 51.711	1.00 20.29	A	C
ATOM	5356	C	SER	690	69. 898	70. 933	53. 038	1.00 24.78	A	0
ATOM	5357	ŏ	SER	690	69. 930	71.606	54. 063	1.00 22.31 1.00 23.43	A	C
ATOM	5358	Ň	ARG	691	69.480	69. 672	53. 023	1.00 23.43	A	0 N
ATOM	5359	ĊA	ARG	691	69. 041	69. 012	54. 249	1.00 21.70	A	N
ATOM	5360	CB	ARG	691	67. 591	68. 546	54. 113	1.00 23.07	A	C
ATOM	5361	ĊĠ	ARG	691	66. 623	69.652	53. 770	1.00 22.80	A A	C C
<b>ATOM</b>	5362	CD	ARG	691	65. 201	69. 152	53.813	1.00 22.81	A	C
ATOM	5363	NE	ARG	691	64. 236	70. 240	53.694	1.00 24.03	A	N
ATOM	5364	CZ	ARG	691	62. 963	70. 134	54.061	1.00 26.18	A	C
ATOM	5365		ARG	691	62. 509	68. 989	54. 566	1.00 25.20	A	N
ATOM	5366	NH2	ARG	691	62.149	71.172	53.946	1.00 26.01	A	N
ATOM	5367	C	ARG	691	69.922	67.811	54. 593	1.00 24.24	A	Č
ATOM	5368	0	ARG	.691	69. 595	67.031	55.488	1.00 25.28	A	ŏ
ATOM	5369	N	ALA	692	71.041	67.675	53.889	1.00 24.03	Ä	Ň
ATOM	5370	CA	ALA	692	71.960	66.561	54.100	1.00 24.84	Ä	Ĉ
ATOM	5371	CB	ALA	692	73.270	66.826	53.360	1.00 24.20	Ä	Č
ATOM	5372	C	ALA	692	72. 251	66.210	55.562	1.00 24.60	A	Č
ATOM	5373	0	ALA	692	72.066	65.068	55.967	1.00 24.83	Ā	0
ATOM	5374	N	GLU	693		67.181	56.347	1.00 25.74	Ā	N
ATOM	5375	CA	GLU	693	73. 033	66. 944	57. 757	1.00 27.13	Α	C
ATOM	5376	CB	GLU	693	73. 351	68. 266	58. 463	1.00 29.38	Α	C
ATOM	5377	CG	GLU	693		68.606	58. 583	1.00 35.02	Α	C
ATOM	5378	CD	GLU	693		67. 627	59. 463	1.00 39.06	Α	C
ATOM	5379	0E1		693		66.948	60. 316	1.00 38.42	Α	0
ATOM	5380	0E2		693		67. 554	59. 307	1.00 41.03	Α	0
ATOM	5381	C	GLU	693		66. 215	58. 549	1.00 26.16	Α	C
ATOM	5382	0 N	GLU	693		65. 505		1.00 26.78	Α	0
ATOM ATOM	5383 5384	N CA	ASN	694		66. 387	58. 160	1.00 24.46	A	N
ATOM	5385	CA CB	ASN ASN	694		65.734		1.00 24.35	A	C
ATOM	5386	CG	ASN	694 694		66.473		1.00 26.79	A	C
ATOM	5387	0D1		694 694		67. 796		1.00 28.23	A	C
ATOM	5388	ND2		694		68.607		1.00 29.60	A	0
ATOM	5389	C	ASN	694		68. 015 64. 252		1.00 27.09	A	N
	0000	•	. 1041	007	03.414	04. 202	90.901	1.00 22.78	A	C

	•									
					FIC	G. 4-	111			(Continued)
ATOM	5390	0	ASN	694	68. 736	63. 555	59. 318	1.00 22.09	A	0
ATOM	5391	N	PHE	695	70.008	63.764	57. 481	1.00 21.23	Α	N
ATOM	5392	CA	PHE	695	69.876	62.351	57. 135	1.00 20.87	Α	C
ATOM	5393	CB	PHE	695	70. 297	62.085	55.686	1.00 18.97	A	C
ATOM	5394	CG	PHE	695	69. 262	62.465	54.663	1.00 15.41	A	C
ATOM	5395		PHE	695	68.980	63.804	54. 394	1.00 16.20	A	C
ATOM	5396		PHE	695	68. 582	61.480	53.948	1.00 13.85	A	C
ATOM	5397		PHE	695	68. 033	64. 160	53. 419	1.00 15.80	A	C
ATOM	5398		PHE	695	67. 636	61.819	52. 976	1.00 14.69	A	C
ATOM	5399	CZ	PHE	695	67.360	63. 165	52. 710	1.00 14.36	A	C
ATOM	5400	C	PHE	695	70. 704	61.478	58.068	1.00 22.60	A	C
ATOM	5401	0	PHE	695	70. 734	60. 253	57. 932	1.00 22.75	A	0 N
ATOM	5402	N	LYS	696	71.388	62. 111	59.014	1.00 23.86	A	N
ATOM	5403	CA	LYS	696	72. 189	61.369	59. 980	1.00 24.30	A	C
ATOM	5404 5405	CB	LYS	696	73.119	62.315	60. 744	1.00 23.88	A	C
ATOM ATOM	5405 5406	CG CD	LYS LYS	696 696	74. 230 75. 160	62. 883 63. 793	59. 891 60. 672	1.00 27.19 1.00 26.74	A A	C C
ATOM	5400 5407	CE	LYS	696	76. 354	64. 211	59.816	1.00 26.44	A	C
ATOM	5408	NZ	LYS	696	77. 248	65. 163	60. 534	1.00 28.88	Ä	N
ATOM	5409	C	LYS	696	71. 256	60.670	60.962	1.00 24.58	Ā	C
ATOM	5410	ŏ	LYS	696	71.673	59. 790	61.710	1.00 24.00	Ä	ŏ
ATOM	5411	N	GLN	697	69. 986	61.060	60.949	1.00 24.66	Ä	Ň
ATOM	5412	CA	GLN	697	69.013	60.476	61.865	1.00 26.18	A	Ĉ
ATOM	5413	CB	GLN	697	68.072	61.571	62.385	1.00 28.53	Ä	č
ATOM	5414	CG	GLN	697	68. 766	62.865	62.792	1.00 31.73	Ä	č
ATOM	5415	CD	GLN	697	67. 790	63. 938	63. 262	1.00 34.90	A	Č
ATOM	5416	0E1		697	68.086	65. 133	63.195	1.00 37.16	Ā	Ō
ATOM	5417	NE2		697	66.627	63.516	63.753	1.00 36.42	A	N
ATOM	5418	C	GLN	697	68.176	59.346	61.259	1.00 24.79	Α	C
ATOM	5419	0	GLN	697	67. 294	58.808	61.923	1.00 27.00	Α	0
ATOM	5420	N	VAL	698	68. 439	58.979	60.011	1.00 21.46	Α	N
ATOM	5421	CA	VAL	698	67. 659	57. 922	59.383	1.00 18.56	Α	С
ATOM	5422	CB	VAL	698	66.510	58. 517	58. 524	1.00 19.77	Α	С
ATOM	5423		VAL	698	65.674	59. 467	59. 355	1.00 19.11	Α	С
ATOM	5424		VAL	698	67.077	59. 233	57. 296	1.00 15.74	Α	С
ATOM	5425	C	VAL	698	68. 469	56. 987	58.484	1.00 18.57	Α	С
ATOM	5426	0	VAL	698	69.614	57. 265	58. 135	1.00 17.50	A	0
ATOM	5427	N	GLU	699	67.850	55. 868	58. 121	1.00 18.32	A	N
ATOM	5428	CA	GLU	699	68. 456	54. 885	57. 236	1.00 18.24	A	C
ATOM	5429	CB	GLU	699	68.007	53. 488	57.636	1.00 19.38	A	C
ATOM	5430	CG	GLU	699	67. 600	53. 411	59.097	1.00 26.18	A	C
ATOM	5431	CD	GLU	699	68. 384	52. 377	59. 891	1.00 29.91	A	C
ATOM	5432		GLU	699	69.620	52. 305	59.712	1.00 31.51	A	0
ATOM	5433 5434	C	GLU GLU	699 699	67. 765 67. 857	51. 651 55. 286	60. 703 55. 891	1.00 30.28 1.00 17.20	A	0 C
ATOM	5434 5435	0	GLU	699	66.638	55. 397	55. 765	1.00 17.20	A A	0
ATOM ATOM	5436	N	TYR	700	68.714	55. 516	54. 899	1.00 15.53	A A	N N
ATOM	5437	CA	TYR	700	68. 275	55. 968	53. 584	1.00 13.33	A	C
ATOM	5438	CB	TYR	700	68.810	57. 383	53. 365	1.00 12.01	A	Č
111 010	0.00		•			5555	55. 555		• •	~

					FIC	G. 4-	112			(Continued)
ATOM	5439	CG	TYR	700	68. 374	58. 105	52. 114	1.00 13.03	Α	С
ATOM	5440	CD1	TYR	700	67.027	58. 171	51.746	1.00 12.78	Α	C
ATOM	5441	CE1	TYR	700	66.611	58.961	50.666	1.00 7.94	Α	C
ATOM	5442		TYR	700	69. 301	58.840	51.359	1.00 12.91	Α	C
ATOM	5443		TYR	700	68. 895	59.629	50. 282	1.00 10.45	Α	C
ATOM	5444	CZ	TYR	700	67. 550		49.948	1.00 10.05	Α	C
ATOM	5445	0H	TYR	700	67. 150	60.495	48.913	1.00 8.37	Α	0
ATOM	5446	C	TYR	700	68.743	55. <b>0</b> 56	52.468	1.00 11.71	Α	C
ATOM	5447	0	TYR	700	69. 881	54. 594	52.463	1.00 10.84	Α	0
ATOM	<b>544</b> 8	N	LEU	701	67. 836	54. 775	51.540	1.00 11.32	Α	N
ATOM	5449	CA	LEU	701	68.142	53.950	50.383	1.00 11.03	Α	C
ATOM	5450	CB	LEU	701	67.313	52.667	50. 378	1.00 8.96	Α	C
ATOM	5451	CG	LEU	701	67. 439	51.794	49.123	1.00 10.04	Α	C
ATOM	5452		LEU	701	68.841	51.873	48.511	1.00 7.25	Α	C
ATOM	5453		LEU	701	67.089	50.376	49.490	1.00 5.44	Α	C
ATOM	5454	C	LEU	701	67.811	54. 799	49.170	1.00 13.03	Α	C
ATOM	5455	0	LEU	701	66.660	55. 219	48.986	1.00 13.35	Α	0
ATOM	5456	N	LEU	702	68.840	55.068	48. 367	1.00 12.91	Α	N
ATOM	5457	CA	LEU	702	68. 724	55. 888	47.169	1.00 11.74	Α	C
ATOM	5458	CB	LEU	702	69.806	56.968	47. 196	1.00 11.17	Α	C
ATOM	5459	CG	LEU	702	69. 916	57. 965	46.044	1.00 12.13	Α	C
ATOM	5460		LEU	702	68.569	<b>58. 656</b>	45.803	1.00 10.71	Α	С
ATOM	5461		LEU	702	71.006	58. 981	46.368	1.00 10.37	Α	C
ATOM	5462	C	LEU	702	68.883	55.003	45.942	1.00 13.49	Α	C
ATOM	5463	0	LEU	702	69.854	54. 251	45.832	1.00 14.04	Α	0
ATOM	5464	N	ILE	703	67. 935	55.111	45.016	1.00 13.82	Α	N
ATOM	5465	CA	ILE	703	67.934	54.297	43.806	1.00 12.92	Α	C
ATOM	5466	CB	ILE	703	66.931	53. 152	43.964	1.00 12.98	Α	C C C C
ATOM	5467	CG2		703	66.897	52. 305	42.706	1.00 15.12	Α	C
ATOM	5468		ILE	703	67. 299	52. 322	45. 196	1.00 13.52	Α	C
ATOM	5469		ILE	703	66. 202	51.383	45.663	1.00 13.28	Α	C
ATOM	5470	C	ILE	703	67. 561	55. 125	42.582	1.00 14.12	Α	С
ATOM	5471	0	ILE	703	66.635	55. 938	42.629	1.00 15.85	Α	0
ATOM	5472	N	HIS	704	68. 265	54.909	41.473	1.00 13.28	Α	N
ATOM	5473	CA	HIS	704	67. 987	55.678	40. 265	1.00 11.81	Α	C
ATOM	5474	CB	HIS	704	68.670	57.048	40. 391	1.00 11.13	Α	С
ATOM	5475	CG	HIS	704	67. 968	58. 156	39.667	1.00 11.66	Α	C
ATOM	5476		HIS	704	67.446	58. 221	38. 418	1.00 10.83	Α	С
ATOM	5477		HIS	704	67. 736	59. 387	40. 244	1.00 10.07	Α	N
ATOM	5478		HIS	704	67.098	60. 162	39. 385	1.00 9.04	Α	С
ATOM	5479		HIS	704	66.910	59.479	38. 270	1.00 11.23	A	N
ATOM	5480	C	HIS	704	68.464	54. 965	38. 992	1.00 11.87	A	C
ATOM	5481	0	HIS	704 705	69. 503	54. 306	38. 980	1.00 11.87	A	0
ATOM	5482	N	GLY	705 705	67. 684	55. 082	37. 926	1.00 11.49	A	N
ATOM	5483	CA	GLY	705	68.075	54. 486	36.663	1.00 11.90	A	C
ATOM	5484 5485	C	GLY	705	69.066	55. 449	36.036	1.00 12.16	A	C
ATOM	5485 5486	O N	GLY THR	705 706	68. 911	56.660	36. 153	1.00 13.94	A	0
ATOM	5486 5487			706 706	70.086	54.928	35. 372	1.00 13.29	A	N
ATOM	5487	CA	THR	706	71. 101	55. 782	34. 770	1.00 12.51	Α	С

					FIG. 4-113	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5514 5515 5516	C O N CA CB CG OD1 OD2 C O N CA CB CG OD1 OD2 CO N CA CB CG OD1	THR THR ALA ALA ALA ALA ALA ALA ALA ALA ALA ASP ASP ASP ASP ASP ASP ASP ASP ASP AS	706 706 706 706 706 707 707 707 707 707	FIG. 4 - 113  72. 417 55. 001 34. 557 1. 00 11. 94 A 72. 230 53. 983 33. 565 1. 00 12. 79 A 72. 840 54. 344 35. 861 1. 00 12. 66 A 70. 678 56. 409 33. 455 1. 00 13. 02 A 71. 183 57. 461 33. 084 1. 00 14. 35 A 69. 754 55. 770 32. 748 1. 00 13. 82 A 69. 289 56. 302 31. 469 1. 00 15. 26 A 67. 970 57. 030 31. 644 1. 00 16. 56 A 67. 970 57. 030 31. 644 1. 00 16. 56 A 67. 154 57. 075 30. 720 1. 00 17. 71 A 67. 764 57. 600 32. 828 1. 00 16. 33 A 66. 534 58. 314 33. 113 1. 00 16. 71 A 66. 376 58. 508 34. 614 1. 00 18. 25 A 64. 957 58. 834 35. 000 1. 00 19. 59 A 64. 304 59. 612 34. 266 1. 00 18. 82 A 66. 490 59. 673 32. 408 1. 00 17. 30 A 67. 131 60. 647 32. 843 1. 00 18. 75 A 65. 715 59. 722 31. 327 1. 00 13. 98 A 66. 5028 60. 503 29. 137 1. 00 13. 26 A 65. 028 60. 503 29. 137 1. 00 11. 83 A 63. 700 59. 778 29. 228 1. 00 13. 61 A 62. 648 60. 402 28. 958 1. 00 12. 39 A 63. 706 58. 584 29. 593 1. 00 10. 85 A 64. 603 61. 934 31. 129 1. 00 13. 44 A 64. 649 63. 112 30. 786 1. 00 14. 33 A 63. 743 61. 473 32. 034 1. 00 12. 40 A 62. 761 62. 331 32. 702 1. 00 11. 63 A 61. 566 61. 469 33. 094 1. 00 10. 91 A 60. 388 62. 276 33. 572 1. 00 12. 77	Continued)  C O C C O N C C C C C O N C C C C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5519 5520 5521 5522 5523 5524 5525 5526 5527	ND2 C O N CA CB CG1	ASN ASN ASN VAL VAL VAL VAL VAL VAL VAL	710 710 710 710 711 711 711 711 711 711	59. 271       61. 760       33. 651       1. 00 14. 18       A         60. 621       63. 539       33. 903       1. 00 12. 05       A         63. 395       63. 010       33. 938       1. 00 13. 10       A         63. 691       64. 211       33. 912       1. 00 12. 53       A         63. 570       62. 246       35. 017       1. 00 11. 10       A         64. 221       62. 741       36. 225       1. 00       9. 96       A         63. 620       62. 128       37. 512       1. 00       9. 85       A         64. 415       62. 570       38. 719       1. 00       7. 61       A         62. 176       62. 567       37. 675       1. 00       11. 26       A         65. 645       62. 237       36. 038       1. 00       10. 48       A         65. 949       61. 068       36. 280       1. 00       10. 00       A	O N C O N C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5529 5530 5531 5532 5533 5534 5535	N CA CB CG CD2 ND1 CE1	HIS HIS HIS HIS HIS HIS	712 712 712 712 712 712 712 712 712	66. 518 63. 126 35. 591 1. 00 10. 94 A 67. 899 62. 758 35. 302 1. 00 11. 74 A 68. 577 63. 961 34. 646 1. 00 10. 79 A 67. 782 64. 529 33. 514 1. 00 11. 58 A 66. 855 63. 955 32. 705 1. 00 12. 39 A 67. 833 65. 858 33. 154 1. 00 11. 87 A 66. 966 66. 082 32. 181 1. 00 12. 19 A 66. 359 64. 944 31. 891 1. 00 11. 62 A	N C C C C C N C

	(Continued)									
ATOM ATOM ATOM	5537 5538 5539	0 N	HIS HIS PHE	712 713	F I G 68. 698 68. 461 69. 631	62. 222 62. 598 61. 319	36. 491 37. 633	1.00 10.63 1.00 11.98	A A A	C O N
ATOM ATOM ATOM ATOM	5540 5541 5542 5543	CB CG	PHE	713 713 713 713	72. 270	60. 720 59. 823 58. 989 57. 813	36. 634 37. 639	1.00 11.00 1.00 11.14 1.00 11.47	A A A	C C C C
ATOM ATOM ATOM ATOM	5544 5545 5546 5547	CE: CE:	2 PHE 1 PHE 2 PHE PHE	713 713 713 713	73. 496 72. 367 74. 153 73. 586	59. 407 57. 066 58. 667 57. 495			A A A	C C C C
ATOM ATOM ATOM	5548 5549 5550 5551	C O N CA	PHE PHE GLN GLN	713 713 714 714	71. 404 71. 377	61. 818 61. 640 62. 948 64. 113	38. 061 39. 243 37. 403 38. 022	1.00 11.85 1.00 13.14 1.00 12.47 1.00 10.55	A A A A	C O N C
ATOM ATOM ATOM	5552 5553 5554 5555		GLN GLN GLN GLN	714 714 714 714	71. 851 72. 055 71. 501 70. 447	65. 321 66. 695 67. 827 67. 693	37. 082 37. 740 36. 891 36. 268	1.00 11.91 1.00 10.69 1.00 9.77 1.00 10.50	A A A A	C C C
ATOM ATOM ATOM	5556 5557 5558 5559	C O N	GLN GLN GLN GLN	714 714 714 715	71. 355 72. 037 70. 029	68. 948 64. 417 64. 700 64. 340	36. 870 39. 368 40. 356 39. 395	1. 00 9. 43 1. 00 9. 91 1. 00 8. 86 1. 00 10. 27	A A A	N C O N
ATOM ATOM ATOM ATOM	5560 5561 5562 5563	CA CB CG CD	GLN GLN GLN GLN	715 715 715 715	67. 771 6 67. 267 6 66. 285 6	54. 616 54. 393 55. 219 56. 288	40. 599 40. 315 39. 144 39. 567	1. 00 10. 62 1. 00 10. 98 1. 00 11. 10 1. 00 14. 59	A A A	C C C
ATOM ATOM ATOM	5564 5565 5566 5567	C 0	GLN GLN GLN	715 715 715 715	65. 336 6 69. 716 6 69. 976 6	66. 828 66. 613 63. 781 64. 322	40. 671 38. 685 41. 780 42. 853	1. 00 16. 72 1. 00 12. 90 1. 00 10. 65 1. 00 12. 32	A A A	0 N C O
ATOM ATOM ATOM ATOM	5568 5569 5570 5571	N CA CB OG	SER SER SER SER	716 716 716 716	70. 299 6 69. 937 6 68. 541 5	52. 472 51. 630 50. 163 59. 994	41.600 42.700 42.461 42.492	1.00 9.91 1.00 12.35 1.00 10.77 1.00 14.60	A A A	N C C O
ATOM ATOM ATOM ATOM ATOM	5572 5573 5574 5575	C O N CA	SER SER ALA ALA	716 716 717 717	72. 341 6 72. 522 6 73. 969 6	1. 761 1. 556 2. 094 2. 252	42. 876 43. 976 41. 797 41. 870	1. 00 13. 46 1. 00 14. 90 1. 00 12. 22 1. 00 13. 92	A A A	C O N C
ATOM ATOM ATOM	5576 5577 5578 5579	CB C O N	ALA ALA ALA GLN	717 717 717 718	74. 299 6 75. 257 6 73. 504 6		40. 479 42. 790 43. 560 42. 710	1. 00 12. 46 1. 00 13. 73 1. 00 15. 24 1. 00 13. 27	A A · A A	C C O N
ATOM ATOM ATOM ATOM	5580 5581 5582 5583	CD	GLN GLN GLN GLN	718 718 718 718	72. 976 6 73. 548 6 74. 996 6	6. 841 7. 422 7. 865	43. 565 43. 035 41. 734 41. 867	1. 00 13. 07 1. 00 13. 93 1. 00 15. 44 1. 00 13. 84	A A A	C C C
ATOM ATOM	5584 5585	OE1 NE2		718 718			42. 950 40. 755	1.00 16.85 1.00 17.86	A A	0 N

					FΙ	G. 4	-118	5		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5589 5590 5591 5592 5593 5594 5595 5596 5597 5598 5600 5601 5602 5603 5604 5605 5606 5607 5608 5609 5610 5611 5612 5613 5614 5615 5616 5617 5618 5619 5620 5621 5622 5623 5624 5625 5626	CG1 CCC ON CABCCCC ON CABCCC	ILE ILE SER SER SER SER SER LYS	718 719 719 719 719 719 719 719 719 720 720 720 720 720 721 721 721 721 721 721 721 721 722 722	73. 350 73. 941 72. 370 71. 956 70. 691 70. 464 69. 447 73. 508 74. 557 74. 901 75. 471 75. 804 76. 159 77. 336 77. 613 78. 764 78. 341 77. 190 78. 150 75. 992 75. 760 74. 389 75. 874 76. 430 75. 429 76. 430 75. 429 76. 430 77. 613 77. 613 78. 674 78. 360 75. 429 76. 429 76. 430 77. 626 73. 116 72. 428 73. 508	65. 343 65. 910 64. 460 64. 110 63. 201 62. 673 63. 338 63. 703 63. 143 63. 351 62. 262 61. 405 60. 325 60. 894 62. 207 61. 995 63. 129 63. 129 63. 129 63. 129 63. 129 63. 129 63. 129 63. 129 63. 129 64. 823 65. 765 68. 165 64. 816 64. 982 65. 351 66. 198 66. 870 65. 369 65. 36	45. 026 45. 949 45. 237 46. 594 46. 616 48. 021 46. 174 46. 154 47. 282 48. 367 46. 632 47. 155 46. 135	5 1.00 13.24 1.00 11.74 1.00 12.01 1.00 11.94 1.00 12.50 1.00 11.09 1.00 14.37 1.00 8.64 1.00 11.72 1.00 10.69 1.00 11.35 1.00 11.02 1.00 10.89	A A A A A A A A A A A A A A A A A A A	CONCCCCONCCOONCCCCNCONCCCONCCCCONCCCONC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5626 C 5627 C 5628 C 5629 C 5630 O 5631 N 5632 C 5633 C	GB G1 G2 A B	VAL VAL VAL VAL VAL ASP ASP ASP	724 724 724 724 724 725 725 725	79. 671 81. 187 79. 178 79. 785 80. 665 79. 411 80. 051 79. 627	61. 824 61. 819 60. 449 63. 455 63. 337 64. 632 65. 848 67. 032			A A A A A A A	C C C C O N C C
ATOM	5634 C	<b>.</b>	ASP	725	80. 259	67. 004	49. 549	1.00 26.44	Α	C

		٠		FIG. 4-116	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5635 5636 5637 5638 5639 5641 56443 56445 5655 5655 5655 56667 5667 5677 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5	OD1 ASP OD2 ASP C ASP O ASP N VAL CA VAL CB VAL CG1 VAL CG2 VAL C GLY C	725 725 725 726 726 726 726 726 727 727 727 728 728 728 728 728 729 729 729 729 729 730 730 730 730 730 730 730	81. 149       66. 151       49. 319       1. 00 26. 28       A         79. 867       67. 839       48. 704       1. 00 30. 70       A         79. 805       66. 171       53. 238       1. 00 19. 86       A         80. 486       67. 024       53. 792       1. 00 23. 33       A         78. 603       65. 790       55. 285       1. 00 17. 97       A         77. 178       66. 341       55. 567       1. 00 18. 54       A         76. 992       67. 680       54. 875       1. 00 18. 54       A         76. 992       67. 680       54. 875       1. 00 18. 24       A         76. 121       65. 339       55. 120       1. 00 18. 24       A         76. 121       65. 339       55. 120       1. 00 18. 24       A         78. 412       64. 504       57. 283       1. 00 19. 86       A         79. 439       63. 541       55. 535       1. 00 17. 13       A         78. 483       60. 961       57. 794       1. 00 19. 74       A         78. 483       60. 961       57. 794       1. 00 19. 74       A         77. 517       61. 371       56. 085       1. 00 18. 22       A         76. 331       <	0 0 C 0 N C
ATOM ATOM ATOM ATOM ATOM ATOM	5673 5674 5675 5676 5677 5678	CZ PHE C PHE O PHE N GLN CA GLN CB GLN	730 730 730 731 731 731	75. 120 58. 175 49. 317 1. 00 9. 85 A 73. 565 54. 388 52. 281 1. 00 16. 20 A 74. 675 53. 990 51. 945 1. 00 18. 49 A 72. 447 53. 883 51. 791 1. 00 17. 40 A 72. 484 52. 813 50. 813 1. 00 17. 82 A 71. 514 51. 708 51. 208 1. 00 20. 04 A	O N C C
ATOM ATOM ATOM ATOM ATOM	5679 5680 5681 5682 5683	CG GLN CD GLN OE1 GLN NE2 GLN C GLN	731 731 731 731 731	71. 641 51. 257 52. 644 1. 00 25. 37 A 73. 019 50. 737 52. 968 1. 00 28. 25 A 73. 554 49. 883 52. 256 1. 00 32. 85 A 73. 603 51. 238 54. 055 1. 00 30. 12 A 72. 091 53. 382 49. 458 1. 00 17. 65 A	C C O N C

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					F I G. 4	- 1 1	7		(Continued)	
ATOM	5684	1 0	GLN	731	71.160 54.19	1 49.35	5 1.00 17.02	Α	0	
ATOM	5685	N	ALA	732	72.802 52.96			A	Ň	
ATOM	5686		ALA	732	72.510 53.44			A	Ċ	
ATOM	5687		ALA	732	73. 588 54. 409			Ä	č	
ATOM	5688		ALA	732	72.419 52.283			Ä	Č	
ATOM	5689		ALA	732	72.940 51.20		6 1.00 16.17	A	0	
ATOM	5690		MET	733	71.737 52.504		9 1.00 14.57	Ā	N	
ATOM	5691			733	71.599 51.483			A	C	
ATOM	5692			733	70. 490 50. 499			Α	C	
ATOM	5693			733	70. 288 49. 386			A	C	
ATOM	5694			733	71. 814 48. 476			Α	S	
ATOM	5695		MET	733	71.892 47.307			Α	C	
ATOM	5696		MET	733	71. 283 52. 153			Α	C	
ATOM ATOM	5697 5698	0	MET	733	70. 317 52. 915			Α	0	
ATOM	5699	N CA	TRP TRP	734	72. 113 51. 884			A	N	
ATOM	5700	CB	TRP	734 734	71.890 52.447			A	C	
ATOM	5700	CG	TRP	734 734	73. 173 53. 117			A	C	
ATOM	5702		2 TRP	734	74. 187 52. 159			A	C	
ATOM	5703		2 TRP	734	75. 398 51. 726 75. 984 50. 757		_	A	C	
ATOM	5704		TRP	734	75. 984 50. 757 76. 045 52. 062	39.053		A	C	
ATOM	5705		TRP	734	74. 095 51. 463	41.087 38.095		A	C	
ATOM	5706		TRP	734	75. 170 50. 613	38. 093 37. 961	1.00 10.56 1.00 12.87	A	C	
ATOM	5707		TRP	734	77. 183 50. 119	39. 369	1.00 12.87	A	N	
ATOM	5708		TRP	734	77. 238 51. 428	41.400	1.00 9.32	A	C	
ATOM	5709		TRP	734	77. 793 50. 468	40. 545	1.00 9.32	A	C	
ATOM	5710	С	TRP	734	71.480 51.291	39. 445	1.00 14.06	A A	C C	
ATOM	5711	0	TRP	734	71.903 50.155	39.653	1.00 14.00	A	0	
ATOM	5712	N	TYR	735	70.635 51.570	38. 461	1.00 15.15	A	N N	
ATOM	5713	CA	TYR	735	70. 223 50. 544	37. 504	1.00 15.51	A	C	
ATOM	5714	CB	TYR	735	68. 705 50. 326	37. 556	1.00 14.10	A	Č	
ATOM	5715	CG	TYR	735	68.300 49.439	38. 709	1.00 14.76	A	C C	
ATOM	5716		TYR	735	68.619 48.081	38. 708	1.00 14.45	A	č	
ATOM	5717		TYR	735	68. 360 47. 278	39.816	1.00 14.33	Ä	č	
ATOM	5718		TYR	735	67.696 49.971	39.848	1.00 15.84	Ä	č	
ATOM	5719		TYR	735	67. 432 49. 180	40.960	1.00 14.52	Ä	č	
ATOM	5720	CZ	TYR	735	67. 772 47. 835	40.938	1.00 16.33	Α	Č	
ATOM	5721	OH	TYR	735	67. 547 47. 056	42.048	1.00 17.53	Α	0	
ATOM	5722	C	TYR	735	70.685 50.966	36.104	1.00 16.31	Α	С	
ATOM	5723	0	TYR	735	70. 103 51. 858	35.466	1.00 15.82	Α	0	
ATOM ATOM	5724 5725	N	THR	736	71. 763 50. 330	35.654	1.00 15.44	Α	N	
ATOM	5725 5726	CA CB	THR THR	736	72. 361 50. 608	34. 353	1.00 15.13	A	C	
ATOM	5727	0G1	THR	736	73. 491 49. 602	34.030	1.00 14.68	A	С	
ATOM	5728		THR	736 736	74.470 49.614	35.076	1.00 15.48	A	0	
ATOM	5729	C	THR	736	74. 156 49. 961	32.713	1.00 14.72	A	C	
ATOM	5730	Ö	THR	736	71.365 50.549	33. 206	1.00 15.41	A	C	
ATOM	5731	N	ASP	737	70.650 49.560 71.335 51.614	33.044	1.00 16.44	A	0	
ATOM	5732	CA	ASP	737	71.335 51.614 70.475 51.719	32. 414 31. 238	1.00 15.92	A	N	
	- · <b></b>			101	10.419 91.119	01.400	1.00 16.48	A	C	

(Continued) FIG. 4-118 5733 **ATOM** CB ASP 737 70.884 50.677 30.200 1.00 15.90 C Α 5734 CG **ASP** 737 72.232 **ATOM** 50.972 29.574 1.00 20.37 C **ATOM** 5735 737 72.679 28.747 OD1 ASP 50.147 1.00 24.29 0 A **ATOM** 5736 OD2 ASP 737 72.847 29.895 52.020 1.00 18.74 0 Α **ATOM** 5737 **ASP** 737 68.974 51.632 31.467 1.00 17.71 C A 68. 205 5738 **ATOM ASP** 737 30.515 0 51.507 1.00 18.86 0 A 5739 **ATOM** N GLU 738 68.553 32. 722 1.00 18.39 51.692 A N ATOM 5740 CA GLU 738 67.135 51.644 33.033 1.00 19.00 C Α 66.909 **ATOM** 5741 CB **GLU** 738 50.999 34.407 1.00 20.24 C Α 5742 CG ATOM **GLU** 738 66.904 34.380 C 49.485 1.00 20.93 A **ATOM** 5743 CD **GLU** 738 65.741 48.937 33.565 1.00 24.58 C Α ATOM 5744 OE1 GLU 738 64.588 49.289 33.878 1.00 27.21 0 Α **ATOM** 5745 0E2 GLU 738 65.970 32.611 48.163 1.00 26.16 0 Α **ATOM** 5746 C **GLU** 738 66.624 53.076 33.025 1.00 19.38 C Α 67.327 5747 0 **ATOM GLU** 738 53.991 33.461 1.00 20.83 Α 0 **ATOM** 5748 N **ASP** 739 65.414 53.288 32. 525 1.00 18.55 N Α **ATOM** 5749 CA ASP 739 64.892 54.642 32.493 1.00 17.49 C Α **ATOM** 5750 **ASP** 64.074 CB 739 54.863 31.222 1.00 18.32 C Α **ATOM** 5751 CG ASP 739 62.689 54.271 31.293 1.00 21.44 C A **ATOM** 5752 OD1 ASP 739 61.995 54.340 30.257 1.00 24.73 0 Α 62.285 **ATOM** 5753 OD2 ASP 739 53.752 32.358 1.00 21.35 Α 0 ATOM 5754 C **ASP** 739 64.088 54.976 33.750 1.00 17.35 C Α **ATOM** 5755 0 **ASP** 739 64.191 54.282 34.762 1.00 15.74 Α 0 **ATOM** 5756 N HIS 63.291 740 56.034 33.687 1.00 16.96 Α N **ATOM** 5757 CA HIS 740 62.521 56.469 34.842 1.00 18.24 C Α **ATOM** 5758 CB HIS 740 61.746 57.736 34.511 1.00 16.88 C Α **ATOM** 5759 61.145 CG HIS 740 58.392 35.710, 1.00 17.57 Α C ATOM 5760 CD2 HIS 740 59.883 58.812 35.961 1.00 16.26 Α C **ATOM** ND1 HIS 5761 740 61.881 58.687 36.837 1.00 17.31 N Α **ATOM** 5762 CE1 HIS 740 59.262 37.732 61.097 1.00 18.51 Α C **ATOM** 5763 NE2 HIS 740 59.880 59.349 37. 224 1.00 17.94 Α N **ATOM** 5764 C HIS 61.557 740 55.449 35.426 1.00 19.90 Α C **ATOM** 5765 0 HIS 61.191 55.539 740 36.599 1.00 20.00 Α 0 **ATOM** 5766 N **GLY** 741 61.151 54.481 34.614 1.00 19.40 N Α **ATOM** 5767 CA GLY 741 60.216 53.484 35.084 1.00 18.82 C Α **ATOM** 5768 **GLY** C 741 60.849 52.218 35.609 1.00 20.36 Α C **ATOM** 5769 0 **GLY** 741 60.165 51.404 36. 237 1.00 22.79 A 0 **ATOM** 5770 N ILE 742 62.145 52.045 35.368 1.00 19.61 Α N **ATOM** 5771 CA ILE 50.849 742 62.854 35.821 1.00 17.74 A C **ATOM** 5772 CB ILE 742 63.273 50.981 37.294 C 1.00 14.46 Α **ATOM** CG2 ILE 5773 742 64.279 49.917 37.638 1.00 14.37  $_{\rm C}^{\rm C}$ Α **ATOM** 5774 CG1 ILE 742 52.370 63.865 37.540 1.00 13.43 Α **ATOM** 5775 CD1 ILE 742 64.540 52.552 Č 38.887 1.00 9.55 Α **ATOM** 5776 C ILE 742 61.907 49.658 35.676 1.00 19.11 C Α **ATOM** 5777 ILE 0 742 61.805 48.825 36.571 1.00 18.97 A 0 **ATOM** 5778 N **ALA** 743 61.217 49.594 34.534 1.00 20.16 Α N **ATOM** 5779 ALA CA 743 60.246 48.538 34.268 1.00 19.71 Α C ATOM 5780 CB ALA 743 1.00 19.65 59.004 49.141 33.630 C Α **ATOM** 5781 **ALA** C 743 60.717 47.350 33. 430 1.00 20.08 C Α

		(Continued)								
ATOM	5782	0	ALA	743	59. 898	46. 536		1.00 20.99	A	0
ATOM	5783	N	SER	744	62.009			1.00 19.12	Α	N
ATOM	5784	CA	SER	744	62. 438			1.00 17.34	A	C
ATOM	5785	CB	SER	744	63. 931		32.068	1.00 14.62	Α	C
ATOM	5786	OG	SER	744	64. 699		33. 125	1.00 18.04	A	0
ATOM	5787	C	SER	744	62. 132		33. 300	1.00 16.58	A	C
ATOM	5788	0	SER	744	62. 137		34. 519	1.00 15.47	A	0
ATOM	5789 5700	N CA	SER	745	61.853		32. 715	1.00 19.10	A	N
ATOM ATOM	5790 5791	CA CB	SER SER	745 · 745	61.524 61.417		33. 503	1.00 20.03	A	C
ATOM	5792	OG	SER	745 745	61.110		32. 598 33. 377	1.00 20.12 1.00 27.90	A	C
ATOM	5793	C	SER	745	62.510		34. 624	1.00 27.90	A	0 C
ATOM	5794	Õ	SER	745	62.130		35. 781	1.00 19.80	A A	0
ATOM	5795	N	THR	746	63. 783		34. 277	1.00 19.56	A	N N
ATOM	5796	CA	THR	746	64. 796	41.849	35. 265	1.00 19.48	A	Č
ATOM	5797	CB	THR	746	66. 125	41. 538	34. 575	1.00 20.06	A	č
ATOM	5798	0G1		746	66.463	42.615	33. 691	1.00 23.41	Ä	Ö
ATOM	5799	CG2	THR	746	66.009	40. 259	33.772	1.00 16.20	A	Č
ATOM	5800	C	THR	746	64.996	42.966	36. 288	1.00 19.59	Ā	Č
ATOM	5801	0	THR	746	65.066	42.706	37.488	1.00 20.63	Ā	0
ATOM	5802	N	ALA	747	65.070	44. 208	35.821	1.00 18.73	Α	N
ATOM	5803	CA	ALA	747	65. 286	45.334	36. 723	1.00 18.03	Α	C
ATOM	5804	CB	ALA	747	65.554	46.609	35. 919	1.00 15.38	A	C
ATOM	5805	C	ALA	747	64. 113	45. 540	37. 681	1.00 17.35	Α	C
ATOM	5806	0	ALA	747	64. 291	45. 989	38. 814	1.00 18.52	Α	0
ATOM	5807	N	HIS	748	62. 915	45. 206	37. 224	1.00 16.75	A	N
ATOM	5808	CA	HIS	748	61.718	45. 342	38. 046	1.00 16.92	A	Ċ
ATOM	5809 5810	CB	HIS	748	60.477	45. 005	37. 220	1.00 13.48	A	C
ATOM ATOM	5810 5811	CG CD2	HIS	748	59. 214	44. 968	38. 020	1.00 14.10	A	C
ATOM	5812	ND1		748 748	58. 397 58. 663	43. 941	38. 348 38. 595	1.00 12.63	A	C
ATOM	5813	CE1		748	57. 561	46. 094 45. 762	39. 241	1.00 14.71 1.00 13.05	A	N
ATOM	5814	NE2		748	57. 377	44. 461	39. 107	1.00 13.05	A	C
ATOM	5815	C	HIS	748	61.790	44. 415	39. 263	1.00 14.40	A	N C
ATOM	5816	ŏ	HIS	748	61.525	44. 816	40. 394	1.00 10.10	A A	C 0
ATOM	5817	Ň	GLN	749	62.148	43. 165	39.025	1.00 18.81	Ä	N
ATOM	5818	CA	GLN	749	62. 241	42. 201	40.105	1.00 19.53	Ä	Č
ATOM	5819	CB	GLN	749	62.408	40. 801	39. 519	1.00 20.05	Ä	č
ATOM	5820	CG	GLN	749	61.291	40.428	38.550	1.00 21.82	Ä	č
ATOM	5821	CD	GLN	749	61.618	39. 190	37.757	1.00 20.87	Ä	Č
ATOM	5822			749	62.047	38. 187	38.316	1.00 22.37	Α	0
ATOM	5823	NE2		749	61.415	39. 249	36.447	1.00 20.00	Α	N
ATOM	5824	C	GLN	749	63.416	42. 524	41.008	1.00 19.07	Α	C
ATOM	5825	0	GLN	749	63. 335	42.388	42. 231	1.00 17.88	A	0
ATOM	5826	N	HIS	750	64. 508	42.972	40.399	1.00 18.97	A	N
ATOM	5827	CA	HIS	750 750	65.707	43. 275	41.160	1.00 16.68	A	C
ATOM	5828	CB CG	HIS HIS	750 750	66.871	43. 597	40. 226	1.00 14.65	A	C
ATOM	5829 5830	CD2		750 750	68. 208	43. 496	40.889	1.00 13.97	A	C
ATOM	5830	UD2	1113	750	69. 207	42.593	40.749	1.00 12.94	Α	С

		(Continued)		
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5831 ND1 HIS 5832 CE1 HIS 5833 NE2 HIS 5834 C HIS 5835 O HIS 5836 N ILE 5837 CA ILE 5839 CG2 ILE 5840 CG1 ILE 5841 CD1 ILE 5842 C ILE 5843 O ILE 5844 N TYR 5845 CA TYR 5846 CB TYR 5846 CB TYR 5847 CG TYR 5848 CD1 TYR 5849 CE1 TYR 5849 CE1 TYR 5850 CD2 TYR 5851 CE2 TYR 5852 CZ TYR 5853 OH TYR 5853 OH TYR 5854 C TYR 5855 O TYR 5856 N THR 5857 CA THR 5857 CA THR 5858 CB THR 5859 OG1 THR 5860 CG2 THR 5860 CG2 THR 5861 C THR 5861 C THR 5861 C THR	750 750 750 751 751 751 751 751 751 752 752 752 752 752 752 752 752 752 752	FIG. 4 - 120  68. 615	(Continued)  A N A C A N A C A O A N A C A C A C A C A C A C A C A C A C A C
ATOM ATOM ATOM ATOM	5863 N HIS 5864 CA HIS 5865 CB HIS 5866 CG HIS	754 754 754 754	65. 388 44. 215 46. 199 1. 00 18. 78 66. 363 44. 972 46. 959 1. 00 18. 90 67. 189 45. 857 46. 023 1. 00 19. 13 68. 449 46. 379 46. 644 1. 00 19. 62	A N A C A C A C
ATOM ATOM ATOM ATOM	5867 CD2 HIS 5868 ND1 HIS 5869 CE1 HIS 5870 NE2 HIS	754 754 754 754	68. 786	A C A N A C A N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5871 C HIS 5872 O HIS 5873 N MET 5874 CA MET 5875 CB MET 5876 CG MET 5877 SD MET 5878 CE MET	754 754 755 755 755 755 755	65. 663       45. 828       48. 007       1. 00       19. 38         66. 088       45. 876       49. 158       1. 00       19. 63         64. 589       46. 502       47. 615       1. 00       18. 83         63. 854       47. 342       48. 558       1. 00       19. 68         62. 758       48. 136       47. 839       1. 00       16. 86         63. 283       49. 173       46. 876       1. 00       16. 00         62. 016       50. 314       46. 309       1. 00       20. 78         61. 100       49. 270       45. 200       1. 00       15. 61	A C A C A C A C A C A C A C A C A C A C
ATOM	5879 C MET	755	63. 232 46. 506 49. 676 1. 00 20. 27	A C

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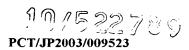
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					D. T. C		1.0.1			(Continued)
					FIC	э. 4 ·	121			
ATOM ATOM ATOM	5880 5881 5882	O N CA	MET SER SER		63. 112 62. 842 62. 240	46. 969 45. 276 44. 380	49.352	1.00 20.56 1.00 20.59 1.00 21.43	A A A	O N C
ATOM	5883	CB	SER	756	61.740	43.106	49.646	1.00 21.74	A	C
ATOM ATOM	5884 5885	OG C	SER SER	756 756	60. 598 63. 224	43. 373 44. 023	48.850 51.444	1.00 21.68 1.00 22.50	A	0
ATOM	5886	ŏ	SER	756	62. 858	44. 023	52.623	1.00 22.30	A A	C 0
ATOM	5887	N	HIS	757	64.466	43.716	51.073	1.00 22.47	A	N
ATOM ATOM	5888 5889	CA CB	HIS HIS	757 757	65. 483 66. 828	43. 384 43. 032	52.065 51.407	1.00 23.01	A	C
ATOM	5890	CG	HIS	757	66. 837	41.721	50.682	1.00 21.90 1.00 24.99	A A	C C
ATOM	5891		2 HIS	757	67. 344	41.375	49.473	1.00 26.07	Ä	č
ATOM ATOM	5892 5893		HIS	757 757	66. 314 66. 497	40.563	51.220	1.00 26.51	A	N
ATOM	5894		HIS	757	67.120	39. 564 40. 029	50. 375 49. 307	1.00 25.15 1.00 25.93	A A	C N
ATOM	5895	C	HIS	757	65. 689	44. 596	52.966	1.00 23.03	Ä	Č
ATOM ATOM	5896 5897	O N	HIS PHE	757 758	65. 823	44. 474	54. 186	1.00 24.03	A	0
ATOM	5898	CA	PHE	758	65. 704 65. 920	45. 771 46. 995	52. 356 53. 106	1.00 22.28 1.00 24.10	A A	N C
ATOM	5899	CB	PHE	758	66.005	48.190	52.161	1.00 20.12	Ä	Č
ATOM ATOM	5900 5901	CG	PHE PHE	758 750	66.455	49.448	52. 828	1.00 17.08	A	C
ATOM	5901		PHE	758 758	67. 803 65. 537	49. 657 50. 429	53. 106 53. 176	1.00 15.49 1.00 15.44	A	C
ATOM	5903	CE 1	PHE	758	68. 233	50. 825	53. 717	1.00 13.44	A A	C C
ATOM	5904		PHE	758 758	65. 955	51.607	53. 789	1.00 17.18	Α	C
ATOM ATOM	5905 5906	CZ C	PHE PHE	758 758	67. 308 64. 832	51. 806 47. 254	54.060 54.135	1.00 15.05	A	C
ATOM	5907	ŏ	PHE	758	65. 120	47. 546	55. 295	1.00 26.28 1.00 28.09	A A	C 0
ATOM	5908	N	ILE	759	63.580	47.162	53.706	1.00 27.69	A	Ň
ATOM ATOM	5909 5910	CA CB	ILE ILE	759 759	62. 461 61. 129	47. 394	54.605	1.00 29.02	A	C
ATOM	5911		ILE	759	59. 967	47. 271 47. 207	53. 853 54. 836	1.00 28.24 1.00 29.09	A A	C C
ATOM	5912	CG1	ILE	759	60. 990	48. 446	52. 884	1.00 28.85	A	Č
ATOM ATOM	5913 5914	CD1 C	ILE	759 750	61.173	49. 809	53. 535	1.00 27.28	A	C
ATOM	5915	0	ILE ILE	759 759		46. 420 46. 822	55. 774 56. 925	1.00 31.10 1.00 30.20	A	C
ATOM	5916	N	LYS	760		45. 140	55. 464	1.00 30.20	A A	O N
ATOM	5917	CA	LYS	760		44.079	56.465	1.00 33.04	A	С
ATOM ATOM	5918 5919	CB CG	LYS LYS	760 760		42. 715 42. 300	55. 780 55. 164	1.00 34.00	A	C
ATOM	5920	CD	LYS	760		41.455	53. 104	1.00 37.68 1.00 40.82	A A	C C
ATOM	5921	CE	LYS	760	62.473	40. 229	54.199	1.00 42.70	A	č
ATOM ATOM	5922 5923	NZ C	LYS LYS	760 760		39. 600 44. 205	52. 933 57. 306	1.00 44.73	A	N
ATOM	5924	0	LYS	760		44. 205 43. 676	57. 396 58. 504	1. 00 33. 20 1. 00 34. 38	A A	C 0
ATOM	5925	N	GLN	761	64.914	44.902	56.939	1.00 33.26	A	N
ATOM ATOM	5926 5927	CA CB	GLN GLN	761 761		45.100		1.00 33.22	A	C
ATOM	5928	CG	GLN	761		45. 422 45. 584		1.00 35.03 1.00 38.28	A A	C
								1.00 00.20	11	U

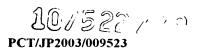
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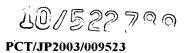
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					FIC	G. 4	- 122	2		(continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5929 5930 5931 5932 5933 5934 5935 5937 5938 5939 5940	OE NE C O N CA C O CB SG N CA	C1 GLN GLN GLN CYS CYS CYS CYS CYS CYS PHE PHE	761 761 761 761 762 762 762 762 762 763 763	68. 759 68. 487 69. 177 65. 819 66. 064 65. 276 64. 945 63. 888 63. 892 64. 470 63. 606 62. 993 61. 948	46. 893 47. 969 46. 811 46. 251 46. 149 47. 337 48. 513 48. 216 48. 830 49. 643 51. 029 47. 271 46. 907	58. 283 57. 739 59. 544 58. 701 59. 898 58. 161 58. 953 60. 023 61. 087 58. 025 58. 843 59. 742 60. 694	3 1.00 42.12 1.00 43.62 1.00 44.19 1.00 32.55 1.00 32.49 1.00 32.03 1.00 33.26 1.00 32.69 1.00 32.22 1.00 33.90 1.00 40.21 1.00 32.59 1.00 34.25	A A A A A A A A A	C O N C O N C C C C S N C
ATOM ATOM	5942 5943	CB CG	PHE	763 763	60. 618 59. 919	46. 647 47. 892	59. 981 59. 525	1.00 31.61 1.00 30.04	A A	C C
ATOM ATOM ATOM ATOM ATOM	5944 5945 5946 5947 5948	CD2 CE2 CZ	PHE PHE PHE PHE	763 763 763 763 763	60. 371 58. 800 59. 718 58. 139 58. 598	49. 148 47. 808 50. 300 48. 951 50. 202	59. 923 58. 703 59. 510 58. 284 58. 688	1.00 29.45 1.00 28.65 1.00 29.27 1.00 28.76 1.00 30.54	A A A A	C C C C
ATOM ATOM ATOM	5949 5950 5951	C O N	PHE PHE SER	763 763 764	62. 293 61. 499 63. 463	45. 688 45. 276 45. 102	61. 535 62. 381 61. 290	1.00 36.77 1.00 36.29 1.00 39.62	A A A	C 0 N
ATOM ATOM ATOM	5952 5953 5954	CA CB OG	SER SER SER	764 764 764	63. 907 65. 356 66. 215	43. 941 43. 598 44. 709	62. 052 61. 701 61. 913	1.00 43.05 1.00 44.44 1.00 48.06	A A A	C C O
ATOM ATOM	5955 5956 5957	C O N	SER SER LEU	764 764 765	63. 799 64. 195 63. 264	44. 314 45. 412 43. 412	63. 522 63. 916 64. 335	1. 00 45. 02 1. 00 44. 75 1. 00 48. 04	A A A	C O N
ATOM ATOM ATOM	5958 5959 5960	CA CB CG	LEU LEU LEU	765 765 765	63.092 61.624 61.332	43. 716 44. 067 44. 846	65. 747 66. 017 67. 299	1.00 51.59 1.00 50.97 1.00 50.79	A A A	C C C
ATOM ATOM ATOM ATOM	5961 5962 5963 5964		LEU LEU LEU LEU	765 765 765 765		46. 215 44. 996 42. 588 41. 557	67. 221 67. 481 66. 676 66. 779	1.00 50.85 1.00 50.72 1.00 54.72 1.00 55.73	A A A	C C C
ATOM ATOM ATOM	5965 5966 5967	N CD CA	PRO PRO PRO	766 766 766	64.667 65.545	42. 776 43. 960 41. 775	67. 372 67. 317 68. 301	1.00 55.75 1.00 57.13 1.00 57.88 1.00 58.61	A A A	O N C C
ATOM ATOM ATOM ATOM	5968 5969 5970 5971	CB CC C	PRO PRO PRO	766 766 766 766	66. 386 64. 352 63. 341	42. 309 43. 797 41. 639 42. 370	68. 604 68. 568 69. 565 69. 681	1.00 58.49 1.00 58.47 1.00 60.07 1.00 60.04	A A A A	C C C
ATOM TER ATOM ATOM	5972 5973 5974 5975	CB CG	PRO PRO ASP ASP	766 766 38 38	95. 909	40. 805 45. 132 46. 047	70. 427 76. 302 75. 698	1.00 61.88 1.00 32.66 1.00 32.61	A A B B	O C C
ATOM ATOM	5976 5977	OD1 OD2	ASP	38 38	96.905	47. 269	75. 977 74. 942	1.00 30.88 1.00 31.65	B B	0



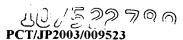
		(Continued)							
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5996 NH 5997 C 5998 O 5999 N 6000 CA 6001 CB 6002 CG 6003 CD 6004 CE 6005 NZ 6006 C 6007 O 6008 N 6009 CA 6010 CB 6011 OG1 6012 CG2 6013 C	SER SER SER SER SER SER ARG ARG ARG ARG ARG ARG LYS	41 41 41 42 42 42 42 42 42 42	94. 533 93. 521 94. 842 95. 507 94. 844 93. 974 94. 048 95. 362 94. 289 93. 615 95. 685 97. 004 98. 228 99. 470 99. 404 100. 260 101. 247 100. 134 94. 604 93. 881 94. 699 94. 505 94. 374 93. 307 94. 028 95. 312 96. 312 97. 004 98. 228 99. 470 99. 404 100. 260 101. 247 100. 134 94. 604 93. 818 94. 699 94. 505 94. 374 93. 307 94. 028 95. 231 93. 118 93. 518 93. 641	46. 648 44. 428 45. 557 47. 807 48. 982 49. 652 50. 017 51. 049 49. 755 50. 686 50. 257 50. 429 49. 917 48. 479 47. 812 48. 461 46. 497 50. 757 49. 793 51. 907 52. 076 53. 556 54. 209 55. 663 55. 779 54. 922 51. 294 51. 072 50. 130 49. 753 48. 129 51. 178	77. 638 76. 938 78. 423 77. 717 78. 344 78. 372 79. 741 80. 003 77. 305 77. 220 76. 499 75. 442 74. 788 75. 670 74. 969 74. 728 73. 963 73. 361 73. 806 74. 376 74. 150 73. 725 72. 658 72. 274 71. 827 71. 365 69. 840 69. 251 71. 458 71. 324 70. 595 69. 399 68. 959 68. 540 70. 101 68. 304	1. 00 31. 81 1. 00 32. 54 1. 00 32. 95 1. 00 32. 06 1. 00 31. 40 1. 00 30. 28 1. 00 31. 88 1. 00 34. 53 1. 00 29. 15 1. 00 26. 40 1. 00 24. 29 1. 00 23. 19 1. 00 21. 38 1. 00 21. 38 1. 00 22. 73 1. 00 22. 73 1. 00 22. 52 1. 00 23. 29 1. 00 23. 29 1. 00 23. 29 1. 00 23. 29 1. 00 23. 55 1. 00 24. 31 1. 00 25. 29 1. 00 28. 84 1. 00 28. 84 1. 00 28. 84 1. 00 28. 95 1. 00 27. 49 1. 00 24. 04 1. 00 24. 69 1. 00 22. 29 1. 00 22. 29 1. 00 22. 29 1. 00 22. 33	B B B B B B B B B B B B B B B B B B B	C O N C N C C O C O N C C C C C N C N N C O N C C C C
ATOM ATOM ATOM	6014 0 6015 N 6016 CA	THR TYR TYR	42 43 43	93. 386 94. 045 94. 158	52. 363 50. 750 51. 662	68. 541 67. 116 65. 986	1.00 23.36 1.00 20.55 1.00 19.19	B B B	O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6020 CE1 6021 CD2	TYR	43 43 43 43 43 43 43 43 43	95. 233 95. 516 94. 888 95. 133 96. 403 96. 655 96. 013 96. 247 92. 770 92. 396	51. 153 52. 062 51. 863 52. 694 53. 126 53. 972 53. 742 54. 553 51. 631 50. 640	65. 020 63. 853 62. 629 61. 546 63. 970 62. 891 61. 682 60. 600 65. 349 64. 725	1. 00 20. 32 1. 00 19. 92 1. 00 22. 19 1. 00 21. 23 1. 00 21. 69 1. 00 22. 25 1. 00 25. 44 1. 00 18. 52 1. 00 17. 41	B B B B B B B	C C C C C C C C C



				FΙ	G. 4	-124	Į.		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6029 C C C C C C C C C C C C C C C C C C C	THE CONTROL OF THE CO	R 44 RR 44 RR 44 RR 44 45 45 45 45 45 45 45 45 45 46 46 46 47 47 47 47 47 47 47 47 47 47 47 47 48 48 48 48 48 48 48 48 48	F I  92.007 90.633 89.762 90.198 89.878 90.521 91.511 89.296 87.570 87.163 88.050 88.948 89.300 89.827 88.948 89.156 88.745 90.634 90.999 91.491 92.910 93.731 93.365 93.116 93.339 93.357 94.057 92.951 93.332 92.867 94.062 94.098 91.726 92.925	7 52. 709 3 52. 802 2 53. 748 5 55. 096 5 53. 409 5 53. 741 5 53. 749 5 53. 489 5 54. 032 5 53. 417 5 55. 240 5 55. 743 5 57. 382 5 7. 382 5 7. 700 5 9. 497	65. 532 65. 019 65. 877 65. 676 67. 346 63. 593 62. 992 63. 067 61. 713 61. 327 59. 952 58. 873 59. 681 61. 638 62. 707 62. 760 64. 038 64. 038 64. 053 62. 694 62. 092 63. 313 63. 262 64. 110 65. 578 66. 105 66. 208 61. 810 61. 320 61. 114 59. 720 59. 136 57. 624 56. 927 55. 531 56. 885 55. 489	1. 00 17. 70 1. 00 18. 55 1. 00 16. 45 1. 00 16. 93 1. 00 14. 45 1. 00 19. 62 1. 00 21. 89 1. 00 19. 06 1. 00 18. 74 1. 00 17. 33 1. 00 17. 35	B B B B B B B B B B B B B B B B B B B	
ATOM ATOM	6066 OH 6067 C	TYR TYR	48 48	92. 925 92. 942 92. 795	54. 434 57. 170	53.452	1. 00 18. 43 1. 00 18. 40 1. 00 21. 85	В В В	C 0 C
ATOM ATOM ATOM	6068 0 6069 N 6070 CA	TYR LEU LEU	48 49 49	93. 547 91. 497 90. 885	57. 853 57. 416 58. 485	58. 207 58. 996	1.00 21.92 1.00 23.08	B B	0 N
ATOM ATOM	6071 CB 6072 CG	LEU LEU	49 49	89. 359 88. 688	58. 437 57. 157	58. 381 57. 872	1.00 26.78 1.00 28.14 1.00 28.75	B B B	C C C
ATOM ATOM ATOM		1 LEU 2 LEU LEU	49 49 49	87. 188 89. 094 91. 391	57. 305 56. 889 59. 886		1.00 28.04 1.00 28.45 1.00 28.33	B B B	C C C
				J = 1 00 1	32.000			ע	V



•					FI	G. 4	125			(Continued)
ATOM ATOM ATOM ATOM ATOM	6076 6077 6078 6079 6080	O N CA CB CG	LEU LYS LYS LYS LYS	49 50 50 50 50	91. 404 91. 818 92. 299 91. 668 90. 159	60.098 61.407 61.769	57. 673 59. 784 60. 204 61. 543 61. 478	1.00 28.77 1.00 30.17 1.00 30.95 1.00 31.36 1.00 33.25	B B B	0 N C C
ATOM ATOM ATOM ATOM ATOM	6081 6082 6083 6084 6085	CD CE NZ C O	LYS LYS LYS LYS LYS	50 50 50 50 50	89. 649 88. 239 87. 310 93. 811 94. 325	62. 710 62. 353 62. 113 61. 543 62. 622	60. 420 59. 970 61. 113 60. 288 60. 577	1.00 34.69 1.00 36.08 1.00 37.00 1.00 31.05 1.00 32.05	B B B B B	C C C N C
ATOM ATOM ATOM ATOM ATOM ATOM	6086 6087 6088 6089 6090		ASN ASN ASN ASN ASN ASN	51 51 51 51 51 51	94. 525 95. 978 96. 502 95. 964 96. 358 95. 047	60.493	60. 033 60. 074 59. 090 57. 689 56. 986 57. 277	1.00 30.75 1.00 31.14 1.00 33.97 1.00 37.06 1.00 39.83 1.00 40.54	B B B B	N C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM	6092 6093 6094 6095 6096 6097	C O N CA CB OG1	ASN ASN THR THR THR	51 51 52 52 52	96. 472 97. 474 95. 770 96. 152 95. 315	60. 828 61. 524 60. 335 60. 587 59. 742	61. 471 61. 624 62. 486 63. 870 64. 854	1.00 29.86 1.00 31.03 1.00 27.96 1.00 26.81 1.00 27.15	B B B B	C O N C C
ATOM ATOM ATOM ATOM ATOM	6098 6099 6100 6101 6102	CG2 C O N CA	THR THR THR TYR TYR	52 52 52 52 53	93. 930 95. 724 97. 622 98. 274 98. 141 99. 541	60. 058 60. 030 60. 259 60. 867 59. 298 58. 900	64. 698 66. 291 64. 090 64. 934 63. 328 63. 450	1.00 27.72 1.00 25.06 1.00 26.88 1.00 27.07 1.00 26.35 1.00 27.48	B B B B B	0 C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM	6103 6104 6105 6106 6107 6108	CD2	TYR TYR TYR TYR TYR TYR	53 53 53 53 53	99. 632 98. 937 99. 433 98. 782 97. 768 97. 107	57. 446 57. 209 57. 761 57. 566 56. 454 56. 255	63. 899 65. 207 66. 389 67. 600 65. 268 66. 474	1.00 24.69 1.00 24.64 1.00 24.67 1.00 24.44 1.00 22.60 1.00 24.81	B B B B	C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	6109 6110 6111 6112 6113 6114	CZ OH C O N CA	TYR TYR TYR TYR ARG ARG	53 53 53 53 54 54	97. 622 96. 981 100. 279 100. 187 101. 024 101. 760	56. 813 56. 609 59. 076 58. 234 60. 168	67. 634 68. 826 62. 131 61. 239 62. 019	1.00 25.33 1.00 25.74 1.00 29.01 1.00 30.80 1.00 30.00	B B B B	C O C O N
ATOM ATOM ATOM ATOM	6115 6116 6117 6118 6119	CB CG CD NE CZ	ARG ARG ARG ARG ARG	54 54 54 54 54	101. 718 100. 360 100. 364 99. 157 98. 812	60. 456 61. 955 62. 449 63. 945 64. 354 63. 893	60. 801 60. 498 60. 020 59. 724 59. 008 57. 808	1. 00 29. 57 1. 00 32. 42 1. 00 38. 51 1. 00 42. 89 1. 00 46. 94 1. 00 48. 52	B B B B	C C C C N C
ATOM ATOM ATOM ATOM ATOM	6120 6121 6122 6123 6124	NH1 NH2 C O N	ARG ARG ARG ARG LEU	54 54 54 54 55	99. 585 97. 697 103. 202 103. 934 103. 596	63. 008 64. 314 59. 992 60. 168 59. 384	57. 190 57. 224 60. 803 61. 776 59. 693	1. 00 50. 08 1. 00 47. 87 1. 00 27. 73 1. 00 26. 62 1. 00 25. 96	B B B B	N N C O N



					FI	G. 4 -	127			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6174 6175 6176 6177 6178 6180 6181 6182 6183 6184 6185 6186 6187 6190 6191 6192 6193 6194 6195 6196 6197 6198 6200 6201 6202 6203 6204 6205 6207 6208 6209 6211 6212 6213 6214 6215	NH2 C O N CA CB CCD2 CE2 CE3 CD1 NE1 CZ2 CZ3 CH2 C O N CA CB CG2 CG1 C O N CA CB O C O N CA CB O N	TRP TRP TRP TRP TRP TRP TRP ILE ILE ILE ILE SER SER SER SER SER ASP	60 61 61 61 61 61 61 61 62 62 62 62 62 62 62 62 62 63 63 63 64 64 64 64 65 65	115. 176 116. 375 116. 634 115. 693 115. 779 115. 002 114. 937 114. 298 113. 671 114. 266 118. 080 118. 475 118. 877 120. 282 121. 024 121. 095 121. 954 121. 639 122. 956 120. 315 120. 639 122. 292 123. 606 123. 271 120. 401 119. 863 121. 265 120. 947 119. 476 121. 830 121. 265 120. 947 119. 476 121. 830 121. 542 122. 693 123. 062 123. 485 124. 876 125. 734 125. 848 125. 399 124. 630 126. 712	65. 604 67. 495 67. 659 68. 728 68. 979 70. 243 70. 506 71. 543 72. 420 71. 693 68. 075 69. 180 67. 186 67. 488 66. 244 65. 145 65. 092 63. 910 65. 932 64. 017 63. 272 63. 546 65. 575 64. 389 68. 588 68. 457 69. 675 70. 763 72. 130 72. 130 72. 130 72. 130 72. 193 72. 372 73. 682 70. 771 71. 609 69. 816 69. 668 70. 808 70. 724 68. 343 67. 488 68. 176	48. 029 48. 302 46. 881 46. 329 44. 833 44. 495 43. 063 42. 525 43. 307 41. 205 46. 676 47. 052 46. 095 45. 355 46. 365 47. 508 48. 215 48. 007 46. 419 47. 528 49. 397 49. 183 49. 866 44. 798 43. 698 44. 180 44. 803 45. 135 44. 180 44. 803 45. 135 44. 180 44. 803 45. 169 46. 027 46. 736 43. 657 44. 269 44. 255 44. 255 44. 236	1. 00 23. 79 1. 00 26. 02 1. 00 27. 11 1. 00 32. 13 1. 00 38. 27 1. 00 41. 78 1. 00 46. 51 1. 00 49. 47 1. 00 48. 74 1. 00 26. 01 1. 00 26. 36 1. 00 25. 15 1. 00 24. 48 1. 00 20. 04 1. 00 18. 16 1. 00 14. 54 1. 00 15. 18 1. 00 12. 41 1. 00 17. 39 1. 00 15. 77 1. 00 16. 35 1. 00 17. 39 1. 00 17. 39 1. 00 17. 39 1. 00 17. 39 1. 00 17. 39 1. 00 17. 39 1. 00 18. 16 1. 00 30. 31 1. 00 30. 36 1. 00 30. 31 1. 00 30. 31 1. 00 30. 31 1. 00 31. 36 1. 00 31. 36 1. 00 31. 42 1. 00 32. 55	B B B B B B B B B B B B B B B B B B B	O N C C C C N C N N C O N C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6214 6215 6216 6217 6218 6219 6220 6221 6222	N CA CB CG OD1 OD2 C O N	ASP ASP ASP ASP	65 65 65 65 65 65 65	126. 712 127. 306 128. 576 129. 158 128. 446 130. 331 127. 636 128. 076 127. 399		44. 236 44. 728 43. 945 44. 302 44. 158 44. 728 46. 211 46. 818			

										(Continued)
					FIG	f. 4 -	1 2 8			
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6223 6224 6225 6226 6227 6228 6229	CB CG CD: ND: CE:	HIS	66 66 66 66 66	127. 704 128. 892 130. 032 131. 260 129. 959 131. 092 131. 897	68. 440 69. 402 69. 076 68. 562 69. 238 68. 835 68. 420	48. 203 48. 329 47. 416 47. 669 46. 047 45. 498 46. 459	1.00 32.64 1.00 35.63 1.00 39.09 1.00 40.29 1.00 41.80 1.00 42.37 1.00 42.11	B B B B B	C C C C N C N
ATOM ATOM ATOM ATOM ATOM ATOM	6230 6231 6232 6233 6234 6235	C O N CA CB CG	HIS HIS GLU GLU GLU GLU	66 66 67 67 67	125. 505 124. 379 124. 457	69. 001 69. 008 69. 479 70. 067 71. 591 72. 179	49. 016 50. 245 48. 345 49. 062 48. 984 49. 781	1.00 31.01 1.00 30.92 1.00 30.05 1.00 28.07 1.00 27.21 1.00 29.99	B B B B	C O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM	6236 6237 6238 6239 6240 6241	CD 0E1 0E2 C 0	GLU GLU GLU GLU	67 67 67 67 67	125. 745 126. 408 125. 207 123. 015 122. 872	73. 675 74. 315 74. 209 69. 619 69. 085	49. 593 50. 438 48. 599 48. 583 47. 482	1.00 32.09 1.00 33.25 1.00 34.83 1.00 27.52 1.00 27.10	B B B B	C 0 0 C 0
ATOM ATOM ATOM ATOM ATOM	6242 6243 6244 6245 6246	N CA CB CG CD1 CE1	TYR TYR TYR TYR TYR TYR	68 68 68 68 68	120. 634 120. 347 120. 373 119. 339	69. 855 69. 498 68. 069 67. 847 68. 319 68. 040	49. 425 49. 116 49. 592 51. 094 51. 914 53. 282	1.00 26.72 1.00 25.74 1.00 23.47 1.00 22.93 1.00 22.75 1.00 21.24	B B B B B	N C C C C
ATOM ATOM ATOM ATOM ATOM	6247 6248 6249 6250 6251 6252		TYR TYR TYR TYR TYR TYR	68 68 68 68	121. 391 121. 379 120. 333 120. 300 119. 657	67. 097 66. 812 67. 283 66. 973 70. 481	51. 685 53. 053 53. 847 55. 191 49. 759	1.00 22.05 1.00 22.38 1.00 23.05 1.00 18.34 1.00 26.00	B B B B	C C C O C
ATOM ATOM ATOM ATOM ATOM	6253 6254 6255 6256 6257	N CA CB CG CD1	LEU LEU LEU LEU LEU	68 69 69 69 69	118. 497 117. 492 116. 729 117. 545	71.077 70.674 71.580 72.316 73.257	50. 789 49. 139 49. 694 48. 586 47. 695 46. 633	1. 00 26. 50 1. 00 26. 72 1. 00 27. 89 1. 00 24. 29 1. 00 23. 81 1. 00 19. 95	B B B B B	O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM	6258 6259 6260 6261 6262 6263	CD2 C O N CA CB	LEU LEU LEU TYR TYR TYR	69 69 69 70 70	116. 508 116. 226 115. 998 115. 057		50. 543 50. 260 51. 590 52. 482	1.00 24.79 1.00 29.18 1.00 28.86 1.00 29.78 1.00 31.48 1.00 28.76	B B B B	C C O N C
ATOM ATOM ATOM ATOM ATOM	6264 6265 6266 6267 6268	CG CD1 CE1 CD2 CE2	TYR TYR TYR TYR TYR	70 70 70 70 70	114. 910 6 114. 396 6 113. 544 6 114. 553 6 113. 701 6	59. 348 58. 114 57. 398 59. 847 59. 141	54. 592 54. 206 55. 038 55. 842 56. 686	1.00 26.47 1.00 25.75 1.00 26.40 1.00 28.33 1.00 28.03	B B B B	C C C C C
ATOM ATOM ATOM	6269 6270 6271	CZ OH C	TYR TYR TYR	70 70 70	112.346	7. 221	57. 103	1.00 28.21 1.00 30.20 1.00 34.45	B B B	C 0 C

	(Continued)				
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6275 CC 6276 CC 6277 CC 6278 CC 6281 CC 6282 CC 6283 CC 6285 CC 6286 CC 6287 CC 6292 CC 6293 CC 6294 CC 6295 CC 6296 CC 6297 CC 6298 CC 6297 CC 6303 CC 6307 CC 6308 CC 6308 CC 6307 CC 6308 C	LYS CA LY	70 71 71 71 71 71 71 71 71 71 72 72 72 72 72 73 73 73 73 74 74 74 75 75 75 76 76 76 76	112. 883 77. 343 53. 077 1. 00 45. 23 B	(Continued)  O N C C C C C C C C C C O N C C C C C
ATOM	6320 CG	1 ILE	76	114.705 75.524 50.310 1.00 41.39 B 112.445 76.583 50.415 1.00 40.24 B	C C

										(Continued)
					FIC	3.4-	130			(Continuou)
ለጥባለ	6321	CD1	ILE	76	112. 341	77. 009	48. 967	1.00 42.01	В	С
ATOM ATOM	6322	C	ILE	76	112. 341	76. 589	53. 043	1.00 42.01	В	č
ATOM	6323	Õ	ILE	76	115. 758	77. 701	53. 150	1.00 41.15	В	ŏ
ATOM	6324	N	LEU	77	115.862	75. 472	53. 400	1.00 36.42	B	N
ATOM	6325	CA	LEU	77	117. 208	75. 498	53. 941	1.00 34.22	В	C
ATOM	6326	CB	LEU	77	117. 227	74.901	55. 351	1.00 34.28	В	C
ATOM	6327	CG	LEU	77	116. 155	75.359	56.346	1.00 34.54	В	C
ATOM	6328	CD1	LEU	77	116.435	74. 728	57.701	1.00 33.23	В	C
ATOM	6329	CD2	LEU	77	116. 149	76.874	56.460	1.00 34.45	B	C
ATOM	6330	C	LEU	77	118. 121	74.683	53.036	1.00 32.91	В	C
ATOM	6331	0	LEU	77	117.657	73. 821	52. 289	1.00 32.49	В	0
ATOM	6332	N	VAL	78	119.417	74.967	53. 103	1.00 30.72	В	N
ATOM	6333	CA	VAL	78	120. 409	74. 253	52. 308	1.00 29.87	В	C
ATOM	6334	CB	VAL	78	121. 227	75. 227	51.431	1.00 30.20	В	C
ATOM	6335	CG1		78	122. 327	74. 480	50. 691	1.00 29.01	В	C
ATOM	6336		VAL	78 78	120. 311	75. 906	50. 448	1.00 31.37	В	C
ATOM	6337	C	VAL VAL	78 78	121. 346 121. 781	73. 523 74. 087	53. 263 54. 261	1.00 28.37 1.00 28.38	B B	C 0
ATOM ATOM	6338 6339	0 N	PHE	79	121. 660	72. 272	52. 956	1.00 26.51	В	N N
ATOM	6340	CA	PHE	79	121. 000	71.496	53. 821	1.00 24.85	В	C
ATOM	6341	CB	PHE	79	121.807	70. 247		1.00 24.05	В	Č
ATOM	6342	CG	PHE	79	120.680	70. 531	55. 296	1.00 22.62	В	č
ATOM	6343		PHE	79	119. 499	71. 120	54. 857	1.00 20.15	В	č
ATOM	6344		PHE	79	120. 789	70. 168	56.636	1.00 19.84	B	č
ATOM	6345		PHE	79	118.448	71.338	55. 733	1.00 20.35	В	Č
ATOM	6346		PHE	79	119.749	70.382	57.513	1.00 16.96	В	Č
ATOM	6347	CZ	PHE	79	118.573	70.967	57.065	1.00 18.97	В	C
ATOM	6348	C	PHE	79	123.815	71.036	53. 151	1.00 24.95	В	C
ATOM	6349	0	PHE	79	123. 841	70. 729	51.960	1.00 24.94	В	0
ATOM	6350	N	ASN	80	124. 876	70. 992	53.948	1.00 23.66	В	N
ATOM	6351	CA	ASN	80	126. 174	70.518	53. 517	1.00 23.32	В	C
ATOM	6352	CB	ASN	80	127. 276	71.307	54. 220	1.00 22.91	В	C
ATOM	6353		ASN	80	128. 653	70.689	54. 032	1.00 22.91	В	C
ATOM	6354		ASN	80	128. 916	69. 567	54. 486	1.00 23.26	В	0
ATOM ATOM	6355 6356	C C	ASN ASN	80	129. 542 126. 156	71.421	53. 364	1.00 21.99 1.00 24.17	В	N C
ATOM	6357	0	ASN	80 80	126. 168	69. 077 68. 842	54. 018 55. 222	1.00 24.17	B B	C 0
ATOM	6358	N	ALA	81	126. 116	68.116	53. 105	1.00 23.17	В	N N
ATOM	6359	CA	ALA	81	126. 054	66.713	53. 496	1.00 23.17	В	C
ATOM	6360	CB	ALA	81	126.025	65. 819	52. 246	1.00 20.69	В	Č
ATOM	6361	C	ALA	81	127. 167	66. 256	54. 434	1.00 25.23	B	č
ATOM	6362	Ö	ALA	81	126. 925	65.462	55. 347	1.00 25.26	B	Ŏ
ATOM	6363	N	GLU	82	128. 377	66.764	54. 222	1.00 26.73	B	Ň
ATOM	6364	CA	GLU	82	129.525	66.351	55.024	1.00 29.51	В	C
ATOM	6365	CB	GLU	82	130.820	66.835	54. 361	1.00 32.02	В	C
ATOM	6366	CG	GLU	82	132. 124	66.326	55.005	1.00 35.72	В	C
ATOM	6367	CD	GLU	82	132. 287	64.800	54. 955	1.00 38.90	В	C
ATOM	6368		GLU	82	132.064	64. 191	53. 884	1.00 38.71	В	0
ATOM	6369	UEZ	GLU	82	132.659	64. 209	55. 995	1.00 40.81	В	0

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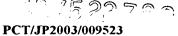
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					E 1 /	~ 4	191			(Continued)
					r I (	G. 4 -	131			
ATOM ATOM ATOM	6370 6371 6372	C O N	GLU GLU TYR	82 82 83	129. 528 130. 102 128. 888	66. 757 66. 051 67. 872	56. 497 57. 324 56. 834	1.00 29.17 1.00 28.55 1.00 29.07	B B B	C O N
ATOM ATOM	6373	CA CB	TYR TYR	83 83	128.877 129.504	68. 329 69. 722	58. 223 58. 320	1.00 28.95 1.00 30.17	B B	C C
ATOM	6375	CG	TYR	83	130.821	69.834	57. 596	1.00 33.40	В	C
ATOM ATOM	6376 6377	CD1 CE1	TYR TYR	83 83	131.914 133.120	69. 049 69. 129	57. 963 57. 271	1.00 33.79 1.00 36.07	B B	C
ATOM ATOM	6378 6379		TYR TYR	83 83	130. 966 132. 162	70. 704 70. 791	56. 517 55. 815	1.00 35.97 1.00 36.91	B B	C
ATOM	6380	CZ	TYR	83	133. 234	70.003	56.195	1.00 38.12	В	C
ATOM ATOM	6381 6382	OH C	TYR TYR	83 83	134. 413 127. 490	70. 091 68. 355	55. 486 58. 853	1.00 42.42 1.00 28.16	B B	0 C
ATOM	6383	0	TYR	83	127.340	68.093	60.044	1.00 29.04	В	0
ATOM ATOM	6384 6385	N CA	GLY GLY	84 84	126. 478 125. 136	68. 684 68. 726	58. 063 58. 601	1.00 25.68 1.00 24.77	B B	N C
ATOM ATOM	6386 6387	C 0	GLY GLY	84 84	124. 668 123. 511	70. 137 70. 345	58. 880 59. 222	1.00 24.95 1.00 23.68	B B	C 0
ATOM	6388	N	ASN	85	125.565	71.109	58.745	1.00 26.40	В	N
ATOM ATOM	6389 6390	CA CB	ASN ASN	85 85	125. 201 126. 446	72. 501 73. 366	58. 984 59. 181	1.00 27.79 1.00 28.01	B B	C C
ATOM ATOM	6391 6392	CG	ASN ASN	85 85	127.356	73.363	57. 975	1.00 31.32	В	C
ATOM	6393	ND2	ASN	85	128. 051 127. 338	72. 384 74. 472	57. 697 57. 250	1.00 31.73 1.00 33.71	B B	O N
ATOM ATOM	6394 6395	C 0	ASN ASN	85 85	124. 381 124. 432	73. 023 72. 472	57. 813 56. 720	1.00 28.62 1.00 28.74	B B	C 0
ATOM	6396	N	SER	86	123.622	74.085	58.043	1.00 30.17	В	N
ATOM ATOM	6397 6398	CA CB	SER SER	86 86	122. 787 121. 392	74. 633 74. 005	56. 991 57. 061	1.00 32.38 1.00 31.71	B B	C C
ATOM ATOM	6399 6400	OG C	SER SER	86 86	120. 734 122. 658	74. 380 76. 145	58. 256 57. 063	1.00 32.32 1.00 33.63	B B	0
ATOM	6401	0	SER	86	123.307	76.800	57.874	1.00 34.72	В	C 0
ATOM ATOM	6402 6403	N CA	SER SER	87 87	121.806 121.530	76. 682 78. 111	56. 195 56. 115	1.00 35.45 1.00 35.95	B B	N C
ATOM ATOM	6404 6405	CB OG	SER SER	87 87	122. 588 123. 887	78.825	55. 280 55. 810	1.00 35.50	В	C
ATOM	6406	C	SER	87	120.191	78. 635 78. 233	55.418	1.00 39.27 1.00 36.74	B B	0 C
ATOM ATOM	6407 6408	O N	SER VAL	87 88	119. 832 119. 444	77. 369 79. 288	54. 625 55. 723	1.00 38.47 1.00 37.17	B B	O N
ATOM ATOM	6409 6410	CA CB	VAL VAL	88	118.154	79. 498	55.084	1.00 36.32	В	C
ATOM	6411	CG1	VAL	88 88	117.357 116.094	80. 636 80. 916	55. 750 54. 954	1.00 37.21 1.00 36.84	B B	C C
ATOM ATOM	6412 6413	CG2 C	VAL VAL	88 88	117. 006 118. 422	80. 260 79. 897	57. 186 53. 647	1.00 38.04 1.00 36.83	B B	C C
ATOM	6414	0	VAL PHE	88	119.235	80.782	53. 379	1.00 36.34	В	0
ATOM ATOM	6415 6416	N CA	PHE	89 89	117. 745 117. 925	79. 240 79. 552	52. 719 51. 314	1.00 36.53 1.00 37.05	B B	N C
ATOM ATOM	6417 6418	CB CG	PHE PHE	89 89	117. 901 118. 060	78. 262 78. 474	50. 491 49. 014	1.00 34.62 1.00 31.67	B B	C C

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			FIG. 4-132	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6419 CD1 PHE 6420 CD2 PHE 6421 CE1 PHE 6422 CE2 PHE 6423 CZ PHE 6424 C PHE 6425 O PHE 6426 N LEU 6427 CA LEU 6428 CB LEU 6429 CG LEU 6430 CD1 LEU 6431 CD2 LEU 6431 CD2 LEU 6432 C LEU 6433 O LEU 6434 N GLU 6435 CA GLU 6435 CA GLU 6436 CB GLU 6436 CB GLU 6437 CG GLU 6436 CB GLU 6437 CG GLU 6437 CG GLU 6438 CD GLU 6438 CD GLU 6439 OE1 GLU 6441 C GLU 6442 O GLU 6441 C GLU 6442 O GLU 6443 N ASN 6444 CA ASN 6445 CB ASN 6446 CG ASN 6447 OD1 ASN 6448 ND2 ASN 6449 C ASN 6449 C ASN 6449 C ASN	89 89 89 89 89 90 90 90 90 91 91 91 91 91 91 92 92 92 92 92	FIG. 4 - 132  116. 963	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM		92 92 92 93 93	107. 512       80. 451       57. 885       1. 00 57. 67       B         108. 116       82. 336       54. 581       1. 00 53. 80       B         106. 924       82. 171       54. 328       1. 00 53. 09       B         108. 646       83. 532       54. 818       1. 00 53. 62       B	N C O N
ATOM ATOM ATOM ATOM ATOM	6453 CB SER 6454 OG SER 6455 C SER 6456 O SER 6457 N THR	93 93 93 93 94	108. 078       85. 527       56. 100       1. 00       53. 85       B         109. 438       85. 905       56. 196       1. 00       54. 56       B         108. 097       85. 658       53. 618       1. 00       53. 82       B         107. 391       86. 646       53. 421       1. 00       52. 94       B         109. 107       85. 322       52. 819       1. 00       54. 56       B	C C O C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6458 CA THR 6459 CB THR 6460 OG1 THR 6461 CG2 THR 6462 C THR 6463 O THR 6464 N PHE 6465 CA PHE 6466 CB PHE	94 94 94 94 94 95 95	109. 473       86. 127       51. 656       1. 00 54. 56       B         110. 616       85. 473       50. 858       1. 00 54. 40       B         110. 837       86. 210       49. 648       1. 00 53. 65       B         110. 268       84. 040       50. 515       1. 00 55. 54       B         108. 330       86. 418       50. 689       1. 00 54. 94       B         108. 424       87. 339       49. 878       1. 00 55. 42       B         107. 256       85. 640       50. 762       1. 00 54. 35       B         106. 125       85. 865       49. 873       1. 00 54. 57       B         105. 956       84. 681       48. 914       1. 00 53. 35       B	C C O C C O N C
ATOM	6467 CG PHE	95	107. 158 84. 426 48. 043 1. 00 52. 21 B	C C



						(Continued)
					FIG. 4-133	(Oonom do d)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6468 6469 6470 6471 6472 6473 6474 6475 6476 6477 6478 6479 6480 6481 6482	CD2 CE1 CE2 CZ C O N CA CB CG OD1	PHE PHE PHE PHE PHE ASP ASP ASP ASP ASP ASP	95 95 95 95 95 96 96 96 96 96	FIG. 4 - 133  107. 978 83. 326 48. 268 1. 00 51. 86 B 107. 476 85. 290 47. 005 1. 00 51. 89 B 109. 095 83. 091 47. 473 1. 00 50. 37 B 108. 594 85. 061 46. 205 1. 00 51. 43 B 109. 403 83. 960 46. 441 1. 00 50. 62 B 104. 825 86. 105 50. 639 1. 00 55. 66 B 103. 740 85. 784 50. 149 1. 00 55. 16 B 104. 941 86. 681 51. 835 1. 00 56. 69 B 103. 775 86. 964 52. 668 1. 00 57. 24 B 104. 167 87. 785 53. 900 1. 00 58. 96 B 104. 793 86. 945 54. 993 1. 00 60. 91 B 104. 234 85. 875 55. 321 1. 00 60. 82 B 105. 835 87. 366 55. 538 1. 00 62. 59 B 102. 674 87. 712 51. 933 1. 00 57. 24 B 101. 498 87. 401 52. 100 1. 00 58. 26	C C C C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6483 6484 6485 6486 6487 6488 6489	N CA CB CG CD OE1 OE2	GLU GLU GLU GLU GLU GLU	97 97 97 97 97 97	103.050       88.703       51.130       1.00 57.07       B         102.068       89.496       50.395       1.00 57.68       B         102.389       90.994       50.512       1.00 59.15       B         102.397       91.553       51.935       1.00 61.76       B         103.629       91.140       52.729       1.00 63.57       B         103.714       91.490       53.927       1.00 63.88       B         104.514       90.467       52.155       1.00 64.73       B	N C C C C O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6490 6491 6492 6493 6494 6495 6496	C O N CA CB CG CD1	GLU GLU PHE PHE PHE PHE PHE	97 97 98 98 98 98	101. 970       89. 123       48. 917       1. 00 56. 86       B         101. 652       89. 972       48. 080       1. 00 58. 05       B         102. 234       87. 859       48. 598       1. 00 54. 75       B         102. 181       87. 393       47. 214       1. 00 52. 58       B         102. 730       85. 965       47. 117       1. 00 52. 53       B         102. 792       85. 434       45. 713       1. 00 51. 74       B         103. 564       86. 073       44. 749       1. 00 50. 75       B	C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6497 6498 6499 6500 6501 6502 6503	CD2 CE1 CE2 CZ C O N	PHE PHE	98 98 98 98 98 98	102. 064       84. 305       45. 348       1. 00 51. 54       B         103. 609       85. 597       43. 445       1. 00 50. 51       B         102. 103       83. 822       44. 044       1. 00 50. 40       B         102. 876       84. 469       43. 092       1. 00 49. 83       B         100. 764       87. 448       46. 641       1. 00 51. 24       B         100. 578       87. 544       45. 427       1. 00 50. 42       B         99. 770       87. 383       47. 523       1. 00 50. 67       B	C C C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6504 6505 6506 6507 6508 6509 6510 6511 6512	CB		99 99 100 100 100 100 100	98. 383       87. 441       47. 094       1. 00 48. 74       B         97. 918       86. 192       46. 376       1. 00 47. 41       B         97. 020       86. 246       45. 540       1. 00 48. 42       B         98. 530       85. 065       46. 712       1. 00 45. 49       B         98. 200       83. 780       46. 104       1. 00 43. 24       B         98. 787       83. 686       44. 694       1. 00 41. 93       B         98. 004       84. 414       43. 651       1. 00 39. 37       B         98. 345       85. 437       42. 833       1. 00 38. 83       B         96. 711       84. 075       43. 321       1. 00 39. 65       B	C C O N C C C C
ATOM ATOM ATOM ATOM	6513 6514 6515 6516			100 100 100 100	96. 288       84. 857       42. 344       1. 00 38. 90       B         97. 262       85. 691       42. 029       1. 00 38. 71       B         98. 822       82. 677       46. 940       1. 00 42. 56       B         99. 916       82. 846       47. 473       1. 00 43. 12       B	C N C O

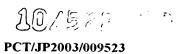


			FIG. 4-134	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6518 CA SEF 6519 CB SEF	101 101 101 101 102 102 102 102 102 102	98. 139 81. 547 47. 063 1. 00 41. 90 98. 716 80. 442 47. 817 1. 00 43. 20 97. 623 79. 527 48. 382 1. 00 43. 41 96. 852 78. 931 47. 354 1. 00 44. 00 99. 582 79. 680 46. 820 1. 00 42. 92 99. 083 79. 213 45. 794 1. 00 43. 33 100. 880 79. 584 47. 095 1. 00 41. 90 101. 762 78. 874 46. 183 1. 00 42. 10 103. 255 79. 286 46. 369 1. 00 43. 10 103. 370 80. 811 46. 404 1. 00 43. 52 103. 824 78. 700 47. 660 1. 00 45. 01 105. 294 79. 038 47. 895 1. 00 46. 96 101. 598 77. 380 46. 415 1. 00 41. 27 101. 342 76. 648 45. 339 1. 00 40. 05 101. 157 75. 211 45. 434 1. 00 39. 20 100. 502 74. 674 44. 163 1. 00 39. 82 99. 355 72. 784 45. 056 1. 00 40. 83 100. 866 72. 396 43. 448 1. 00 40. 75 102. 486 74. 508 45. 645 1. 00 37. 42 102. 601 73. 614 46. 475 1. 00 38. 46 103. 491 74. 912 44. 880 1. 00 35. 77 104. 808 74. 303 44. 982 1. 00 34. 14 104. 819 72. 955 44. 248 1. 00 33. 72 106. 835 72. 525 45. 453 1. 00 35. 84	B
ATOM ATOM ATOM	6546 O ASP 6547 N TYR 6548 CA TYR	104 104 105 105	105.827       75.253       44.367       1.00       33.07         105.461       76.218       43.695       1.00       33.54         107.103       74.985       44.607       1.00       32.32         108.167       75.824       44.082       1.00       31.45	B C B O B N
ATOM ATOM ATOM ATOM	6549 CB TYR 6550 CG TYR 6551 CD1 TYR 6552 CE1 TYR	105 105 105 105 105	108.167       75.824       44.082       1.00       31.45         108.854       76.573       45.220       1.00       32.58         109.515       75.662       46.218       1.00       35.82         110.859       75.306       46.091       1.00       36.01         111.465       74.453       47.009       1.00       36.30	B C B C B C B C
ATOM ATOM ATOM ATOM	6553 CD2 TYR 6554 CE2 TYR 6555 CZ TYR 6556 OH TYR	105 105 105 105	108. 791     75. 138     47. 287     1. 00 37. 55       109. 387     74. 282     48. 208     1. 00 38. 47       110. 719     73. 947     48. 065     1. 00 37. 17       111. 293     73. 106     48. 984     1. 00 38. 67	B C B C B C B C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6557 C TYR 6558 O TYR 6559 N SER 6560 CA SER 6561 CB SER 6562 OG SER 6563 C SER	105 105 106 106 106 106 106	109. 180     74. 972     43. 347     1. 00     30. 07       109. 048     73. 754     43. 276     1. 00     29. 32       110. 203     75. 623     42. 815     1. 00     28. 45       111. 236     74. 938     42. 059     1. 00     26. 63       110. 648     74. 391     40. 758     1. 00     24. 49       111. 662     74. 145     39. 806     1. 00     24. 16	B C B O B C B C B C B O
ATOM ATOM	6564 0 SER 6565 N ILE	106 107	112.168 76.821 40.919 1.00 28.04	B C B 0 B N

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					FI	G. 4	- 135			(COMMITTEE A)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6566 6567 6568 6569 6570 6571 6572 6573 6574 6576 6577	CG	ILE ILE ILE ILE ILE ILE SER SER SER SER SER	107 107 107 107 107 107 108 108 108 108	F I 114. 602 115. 634 116. 885 115. 050 114. 056 115. 315 115. 788 116. 534 116. 936 117. 786 117. 789 118. 223	76. 662 76. 576 77. 328 77. 161 76. 271 76. 305 75. 132 77. 320 77. 102 78. 439 79. 144 76. 347	42. 196 43. 354	1.00 24.30 1.00 21.79 1.00 21.05 1.00 23.96 1.00 25.00 1.00 27.32 1.00 24.67 1.00 24.23 1.00 23.85 1.00 23.56 1.00 25.01 1.00 25.28	B B B B B B B B	C C C C C C O N C C C
ATOM	6579	N	PRO	109	118.394	75. 554	38. 508	1.00 25.25	В	N
ATOM ATOM	6580 6581	CD CA	PRO PRO	109 109	118.003 119.600		37. 115 38. 869	1.00 25.10 1.00 26.01	B B	C C
ATOM	6582	CB	PRO	109	120.023	74. 172	37. 547	1.00 24.74	В	C
ATOM ATOM	6583 6584	CG C	PRO PRO	109 109	118. 722 120. 726	73. 983 75. 619	36. 836 39. 499	1.00 25.99 1.00 27.62	B B	C
ATOM	6585	0	PRO	109	121. 413	75. 139	40. 403	1.00 27.02	В	C 0
ATOM	6586	N	ASP	110	120. 923	76. 847	39. 026	1.00 28.44	В	N
ATOM ATOM	6587 6588	CA CB	ASP ASP	110 110	121. 988 122. 465	77. 691 78. 689	39. 562 38. 504	1.00 29.86 1.00 30.74	B B	C
ATOM	6589	CG	ASP	110	121. 342	79. 543	37. 960	1.00 30.74	В	C
ATOM	6590		ASP	110	120.415	79.856	38. 730	1.00 33.07	B	ŏ
ATOM	6591		ASP	110	121. 391	79.912	36. 767	1.00 33.02	В	0
ATOM	6592	C	ASP	110	121. 599	78. 449	40. 828	1.00 30.83	В	C
ATOM ATOM	6593 6594	O N	ASP	110	122. 379	79. 248	41. 337	1.00 32.09	В	0
ATOM	6595	CA	GLY GLY	111 111	120. 397 119. 945	78. 197	41.335	1.00 31.58	В	N
ATOM	6596	C	GLY	111	119. 943	78. 863 80. 343	42. 545 42. 357	1.00 32.15 1.00 32.90	В	C
ATOM	6597	ŏ	GLY	111	119. 462	81.074	43. 323	1.00 32.90	B B	C 0
<b>ATOM</b>	6598	Ň	GLN	112	119.666	80. 783	41.105	1.00 33.93	В	N N
ATOM	6599	CA	GLN	112	119.440	82. 184	40. 783	1.00 35.14	В	Č
ATOM	6600	CB	GLN	112	120.005	82.486	39. 396	1.00 36.07	B	Č
ATOM	6601	CG	GLN	112	120.885	83.717	39. 329	1.00 39.16	В	Č
ATOM	6602	CD	GLN	112	122.019	83. 551	38. 337	1.00 39.62	В	С
ATOM	6603		GLN	112	122.890	82.697	38. 515	1.00 38.31	В	0
ATOM	6604		GLN	112	122.013	84. 363	37. 281	1.00 41.28	В	Ŋ
ATOM ATOM	6605 6606	0 0	GLN GLN	112	117. 970	82.577	40.826	1.00 34.39	В	C
ATOM	6607	N	PHE	112 113	117. 627 117. 099	83. 692 81. 667	41. 225	1.00 35.13	В	0
ATOM	6608	CA	PHE	113	117. 099	81.965	40. 410 40. 401	1.00 32.82 1.00 31.84	В	N
ATOM	6609	CB	PHE	113	115.078	82. 165	38. 969	1.00 31.84	B B	C C
ATOM	6610	CG	PHE	113	115. 948	83. 204	38. 208	1.00 31.33	В	C
ATOM	6611	CD1	PHE	113	117. 150	82. 886	37. 587	1.00 35.65	В	C
ATOM	6612	CD2	PHE	113	115.475	84. 508	38. 124	1.00 35.41	B	č
ATOM	6613	CE1		113	117.872	83. 853	36.893	1.00 36.00	B	C
ATOM	6614	CE2	PHE	113	116. 185	85. 479	37. 436	1.00 35.02	В	С

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ATOM	6615			113	117.386	85. 152		1.00 35.71	В	C
ATOM	6616		PHE	113	114. 831	80. 896		1.00 30.65	В	C
ATOM	6617		PHE	113	115. 308	79. 829		1.00 30.90	В	0
ATOM	6618		ILE	114	113. 557	81. 205	41.219	1.00 30.09	В	N
ATOM	6619	CA		114	112.630	80. 258	41.791	1.00 29.81	В	C
ATOM ATOM	6620		ILE	114	112. 394	80. 504	43. 293	1.00 28.60	В	C
ATOM	6621 6622	CG	2 ILE 1 ILE	114	111.911	81.915	43. 529	1.00 29.81	В	C
ATOM	6623			114 114	111. 378 111. 336	79. 490	43.813	1.00 30.57	В	C
ATOM	6624		ILE	114	111.336	79. 367 80. 403	45.325 41.019	1.00 33.23	В	C
ATOM	6625	ŏ	ILE	114	110. 895	81.508	40.715	1.00 29.79 1.00 28.83	В	C
ATOM	6626	Ň	LEU	115	110. 756	79. 265	40. 713	1.00 28.83	B B	O N
ATOM	6627	CA	LEU	115	109. 516	79. 223	39. 925	1.00 30.43	В	C
ATOM	6628	CB	LEU	115	109. 596	78. 108	38.890	1.00 28.31	В	Č
ATOM	6629	CG	LEU	115	108. 449	77.898	37.912	1.00 28.22	B	č
ATOM	6630	CD1	LEU	115	108. 425	79.001	36.872	1.00 28.47	B	č
ATOM	6631		LEU	115	108.645	76.553	37. 245	1.00 29.52	B	č
ATOM	6632	C	LEU	115	108. 424	78.923	40.932	1.00 29.59	B	Č
ATOM	6633	0	LEU	115	108. 370	77.824	41.483	1.00 30.72	В	0
ATOM	6634	N	LEU	116	107. 568	79. 901	41.196	1.00 30.29	В	N
ATOM	6635	CA	LEU	116	106.479	79.699	42.142	1.00 30.17	В	C
ATOM	6636	CB	LEU	116	106. 129	81.001	42.861	1.00 31.28	В	C
ATOM ATOM	6637 6638	CG	LEU	116	107. 277	81.741	43.544	1.00 33.66	В	C
ATOM	6639		LEU	116 116	106. 732	82.988	44. 229	1.00 33.41	В	C
ATOM	6640	CDZ	LEU	116	107. 957 105. 270	80. 821	44. 552	1.00 34.07	В	C
ATOM	6641	Õ	LEU	116	103. 270	79. 215 79. 845	41.369	1.00 30.44	В	C
ATOM	6642	Ň	GLU	117	104. 333	78. 091	40. 401 41. 804	1.00 30.69 1.00 30.37	В	0
ATOM	6643	CA	GLU	117	103. 563	77. 513	41.159	1.00 30.37	B B	N
ATOM	6644	CB	GLU	117	103. 813	76.017	40.963	1.00 23.30	В	C
ATOM	6645	CG	GLU	117	102.671	75. 210	40. 368	1.00 32.07	В	Č
ATOM	6646	CD	GLU	117	103.023	73. 728	40. 270	1.00 33.58	В	Č
ATOM	6647	0E1		117	103.772	73.341	39.340	1.00 32.53	B	ŏ
ATOM	6648		GLU	117	102.566	72.956	41.140	1.00 32.35	B	Ŏ
ATOM	6649	C	GLU	117	102. 312	77. 756	42.009	1.00 29.67	В	Ċ
ATOM	6650	0	GLU	117	102. 333	77. 583	43. 228	1.00 27.89	В	0
ATOM	6651	N	TYR	118	101. 235	78. 184	41.355	1.00 29.27	В	N
ATOM ATOM	6652 6653	CA	TYR	118	99. 966	78. 423	42.026	1.00 28.00	В	С
ATOM	6654	CB CG	TYR TYR	118		79.818	42.643	1.00 29.37	В	C
ATOM	6655	CD1	TYR	118 118		80. 955	41.659	1.00 29.69	В	C
ATOM	6656	CE1	TYR	118		81.301 82.373	41.092	1.00 30.04	В	C
ATOM	6657		TYR	118		81. 703	40. 210 41. 316	1.00 31.36 1.00 30.41	В	C
ATOM	6658		TYR	118		82. 768		1.00 30.41	B B	C C
ATOM	6659	CZ	TYR	118		83. 101		1.00 31.17	В	C
ATOM	6660	OH	TYR	118		84. 179	_	1.00 33.43	В	0
ATOM	6661	C	TYR	118		78. 240		1.00 27.66	B	Č
ATOM	6662	0	TYR	118	99.046	77. 917		1.00 26.73	B	ŏ
ATOM	6663	N	ASN	119	97. 582	78. 450	41.499	1.00 27.22	В	N

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ATOM ATOM	6664 6665	CA CB	ASN ASN	119 119	96. 397 96. 422	78. 261 79. 203	40. 659 39. 449	1.00 27.10 1.00 27.22	B B	C C
ATOM	6666	ĊĠ	ASN	119	95. 918	80.599	39. 777	1.00 27.62	B	Č
ATOM	6667	0D1	ASN	119	94.905	80. 761	40. 456	1.00 26.76	В	0
ATOM	6668	ND2	ASN	119	96.613	81.612	39. 277	1.00 25.87	В	N
ATOM	6669	C	ASN	119	96.342	76.810	40.171	1.00 27.88	В	С
ATOM	6670	0	ASN	119	95. 923	76. 534	39. 045	1.00 27.93	В	0
ATOM	6671	N	TYR	120	96. 771	75. 888	41.028	1.00 27.57	В	N
ATOM	6672	CA	TYR	120	96. 795	74. 466	40. 702	1.00 29.01	В	C
ATOM	6673	CB	TYR	120	97. 396	73. 669	41.866	1.00 30.85	В	C
ATOM	6674	CG	TYR	120	97. 421	72. 171	41.635	1.00 32.83	В	C
ATOM	6675		TYR	120	98. 466	71.568	40. 940	1.00 33.76	В	C
ATOM ATOM	6676 6677		TYR TYR	120 120	98. 484 96. 389	70. 190 71. 358	40. 717 42. 100	1.00 35.03 1.00 34.41	B B	C C
ATOM	6678		TYR	120	96.394	69. 981	41. 880	1.00 34.41	В	C
ATOM	6679	CZ	TYR	120	97. 444	69. 403	41. 191	1.00 34.33	В	Č
ATOM	6680	OH	TYR	120	97. 462	68. 039	40. 987	1.00 35.41	В	Ö
ATOM	6681	C	TYR	120	95. 431	73. 863	40. 364	1.00 29.17	В	č
ATOM	6682	ŏ	TYR	120	94. 458	74.034	41.099	1.00 31.09	B	ŏ
ATOM	6683	Ň	VAL	121	95.368	73. 148	39. 248	1.00 27.53	B	Ň
ATOM	6684	CA	VAL	121	94.136	72.487	38. 842	1.00 25.45	B	Ċ
ATOM	6685	CB	VAL	121	93.358	73. 296	37. 785	1.00 25.23	В	Ċ
ATOM	6686	CG1	VAL	121	92.105	72.534	37. 376	1.00 22.18	В	С
ATOM	6687		VAL	121	92.974	74.666	38. 354	1.00° 21.81	В	C
ATOM	6688	C	VAL	121	94.527	71.130	38. 275	1.00 24.99	В	C
ATOM	6689	0	VAL	121	95. 188	71.031	37. 242	1.00 24.18	В	0
ATOM	6690	N	LYS	122	94. 124	70.082	38. 977	1.00 24.16	В	N
ATOM	6691	CA	LYS	122	94.464	68. 735	38. 570	1.00 24.24	В	Č
ATOM	6692	CB	LYS	122	94. 295	67. 780	39. 754	1.00 23.05	В	C
ATOM	6693	CG	LYS	122	94.510	66.327	39. 390	1.00 20.04	В	C
ATOM ATOM	6694 6695	CD CE	LYS LYS	122 122	94. 356	65.416	40.589	1.00 20.19	В	C
ATOM	6696	NZ	LYS	122	94. 402 93. 363	63. 950 63. 632	40. 161 39. 136	1.00 20.85	В	C
ATOM	6697	C	LYS	122	93. 692	68. 180	37. 387	1.00 18.96 1.00 24.10	B B	N C
ATOM	6698	ŏ	LYS	122	92.516	68. 488	37. 189	1.00 23.23	В	0
ATOM	6699	Ň	GLN	123	94. 384	67. 368	36. 592	1.00 23.36	В	N
ATOM	6700	CA	GLN	123	93. 758	66.691	35. 472	1.00 21.22	В	Č
ATOM	6701	CB	GLN	123	94. 455	67.007	34. 145	1.00 20.62	B	č
ATOM	6702	CG	GLN	123	93.689	66.433	32.948	1.00 23.42	B	č
ATOM	6703	CD	GLN	123	94. 242	66.857	31.591	1.00 24.37	В	Č
ATOM	6704		GLN	123	95.399	66.606	31.275	1.00 26.71	В	0
ATOM	6705		GLN	123	93.402	67.493	30.779	1.00 23.80	В	N
ATOM	6706	C	GLN	123	93.856	65.194	35.805	1.00 20.06	В	С
ATOM	6707	0	GLN	123	93. 258	64. 741	36. 786	1.00 17.04	В	0
ATOM	6708	N	TRP	124	94.630	64. 438	35.030	1.00 17.49	В	N
ATOM	6709	CA	TRP	124	94. 753	63.009	35. 276	1.00 16.75	В	C
ATOM	6710	CB CG	TRP TRP	124	95. 165	62. 298	33. 984	1.00 16.19	В	C
ATOM	6711 6712		TRP	124 124	94. 351	62.735	32. 797	1.00 18.11	В	C
ATOM	0117	ODL	TIA	124	92.939	63.014	32.764	1.00 17.55	В	С

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ATOM ATOM	6713 6714		TRP TRP		92. 630 91. 909	63. 449 62. 942	31.455 33.713	1.00 16.84 1.00 17.02	B B	C C
ATOM	6715	CD1			94. 819	62.999	31.539	1.00 19.00	В	C
ATOM	6716	NE 1		124	93. 794	63. 429	30. 731	1.00 18.26	В	N
ATOM	6717		TRP TRP	124 124	91.331	63. 815	31.067	1.00 15.16	В	C
ATOM ATOM	6718 6719	CH2		124	90. 615 90. 342	63. 305 63. 737	33. 326 32. 011	1.00 16.85 1.00 16.12	B B	C C
ATOM	6720	C	TRP	124	95. 718	62.679	36. 427	1.00 10.12	В	C
ATOM	6721	ŏ	TRP	124	95. 816	63. 437	37. 397	1.00 17.74	В	0
ATOM	6722	Ň	ARG		96. 430	61.560	36. 339	1.00 15.31	В	N
ATOM	6723	CA	ARG		97. 317	61.185	37. 429	1.00 16.66	B	Ĉ
ATOM	6724	CB	ARG		97.666	59. 702	37. 323	1.00 16.96	B	Č
ATOM	6725	CG	ARG		98.908	59. 288	38.076	1.00 18.35	В	С
ATOM	6726	CD	ARG		98. 689	57. 987	38. 794	1.00 18.85	В	C
ATOM	6727	NE	ARG	125	98. 049	56. 965	37. 972	1.00 18.57	В	N
ATOM	6728	CZ	ARG	125	97. 547	55. 842	38. 475	1.00 17.58	В	C
ATOM ATOM	6729 6730		ARG ARG	125	96. 972	54. 944	37. 693	1.00 16.96	В	N
ATOM	6731	C	ARG	125 125	97. 626 98. 582	55. 621 62. 027	39. 776 37. 568	1.00 17.03 1.00 18.54	В	N C
ATOM	6732	ŏ	ARG	125	99. 075	62. 227	38. 674	1.00 18.06	B B	C 0
ATOM	6733	Ň	HIS	126	99. 099	62. 533	36. 454	1.00 20.06	В	N
ATOM	6734	CA	HIS	126	100. 300	63. 353	36. 487	1.00 18.20	В	Č
ATOM	6735	CB	HIS	126	101.391	62.673	35. 673	1.00 18.72	B	Č
ATOM	6736	CG	HIS	126	101.721	61.295	36. 151	1.00 19.88	B	C C
ATOM	6737		HIS	126	101.519	60.084	35. 581	1.00 20.06	В	C
ATOM	6738		HIS	126	102. 341	61.054	37. 360	1.00 17.75	В	· N
ATOM	6739		HIS	126	102.510	59. 753	37. 512	1.00 19.55	В	C
ATOM ATOM	6740 6741	NEZ C	HIS	126	102.019	59. 142	36. 447	1.00 22.65	В	N
ATOM	6742	0	HIS HIS	126 126	100. 079 100. 692	64.772	35. 966	1.00 18.28	В	C
ATOM	6743	N	SER	127	99. 204	65. 716 64. 921	36. 462 34. 974	1.00 18.27 1.00 16.08	В	0
ATOM	6744	CA	SER	127	98. 936	66. 230	34. 382	1.00 16.08	B B	N C
ATOM	6745	CB	SER	127	98. 209	66. 070	33. 037	1.00 15.76	В	Č
ATOM	6746	0G	SER	127	96. 999	65. 349	33. 179	1.00 17.80	В	0
ATOM	6747	С	SER	127	98. 151	67. 203	35. 261	1.00 16.75	B	Č
ATOM	6748	0	SER	127	97. 523	66.816	36. 247	1.00 17.88	B	Ö
ATOM	6749	N	TYR	128	98. 205	68.473	34.873	1.00 15.65	В	N
ATOM	6750	CA	TYR	128	97. 520	69. 556	35. 559	1.00 17.91	В	C
ATOM	6751	CB	TYR	128	97. 815	69. 506	37. 060	1.00 17.70	В	C
ATOM ATOM	6752 6753	CG CD1	TYR	128	99. 253	69. 796	37. 444	1.00 17.20	В	C
ATOM	6754		TYR TYR	128 128	99. 725 101. 036	71.107	37. 540	1.00 16.17	В	C
ATOM	6755		TYR	128	101.030	71. 375 68. 759	37. 927 37. 739	1.00 16.04 1.00 17.12	B B	C
ATOM	6756		TYR	128	100. 133	69.016		1.00 17.12	В	C C
ATOM	6757	CZ	TYR	128	101. 891	70. 322	38. 216	1.00 13.30	В	C
ATOM	6758	OH	TYR	128	103. 190	70. 572	38. 603	1.00 20.16	В	Ö
ATOM	6759	C	TYR	128	97. 977	70.897	34.992	1.00 19.77	B	č
ATOM	6760	0	TYR	128	98. 970	70.972		1.00 21.70	В	0
ATOM	6761	N	THR	129	97. 239	71.955	35. 291	1.00 20.48	В	N

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					FI	G. 4	139			(Continued)
	2722	a <b>:</b>		400						
ATOM	6762	CĂ	THR		97. 647		34. 840	1.00 22.26	В	C
ATOM	6763	CB	THR		96. 599			1.00 23.04	В	C
ATOM	6764	0G1			95. 353		34. 652	1.00 24.93	В	0
ATOM	6765		? THR		96. 428		32.634	1.00 22.70	В	C
ATOM	6766	C	THR		97. 856		36.069	1.00 22.23	В	C
ATOM	6767	0	THR		97. 462		37. 182	1.00 20.98	В	0
ATOM	6768	N	ALA		98. 474		35. 854	1.00 22.77	В	N
ATOM	6769	CA	ALA		98. 754	76. 222	36. 926	1.00 23.41	В	C
ATOM	6770	CB	ALA		99. 789		37. 859	1.00 19.73	В	C
ATOM	6771	C	ALA		99. 269	77. 525	36. 338	1.00 26.66	В	C
ATOM	6772	0	ALA		99. 514	77. 632	35. 133	1.00 27.20	В	0
ATOM	6773	N	SER		99.414	78. 523	37. 199	1.00 29.67	В	N
ATOM	6774	CA	SER		99. 934		36. 796	1.00 30.14	В	C
ATOM	6775	CB	SER		99.056	80. 948	37. 333	1.00 30.56	В	C
ATOM	6776	OG	SER		97. 713	80. 775	36. 913	1.00 32.67	В	0
ATOM	6777	C	SER		101.290	79. 851	37. 463	1.00 31.00	В	C
ATOM	6778	0	SER		101.448	79. 334	38. 569	1.00 30.79	В	0
ATOM	6779	N	TYR		102. 272	80. 438	36. 792	1.00 32.02	В	N
ATOM	6780	CA	TYR		103.611	80. 506	37. 347	1.00 31.40	В	C
ATOM	6781	CB	TYR	132	104. 558	79. 634	36. 519	1.00 28.72	В	C
ATOM	6782	CG	TYR	132	104. 179	78. 174	36. 516	1.00 26.74	В	C
ATOM	6783		TYR	132	103.082	77. 721	35. 791	1.00 26.31	В	C
ATOM	6784		TYR	132	102.696	76. 383	35. 834	1.00 26.45	В	C
ATOM ATOM	6785 6786		TYR	132	104. 887	77. 250	37. 283	1.00 26.58	В	C
ATOM	6787		TYR	132	104.510	75. 911	37. 332	1.00 24.63	В	C
ATOM	6788	CZ OH	TYR TYR	132	103.415	75. 486	36. 609	1.00 25.59	В	C
ATOM	6789	C	TYR	132 132	103.023	74. 171	36. 677	1.00 25.63	В	0
ATOM	6790	Õ	TYR	132	104. 143	81.929	37. 411	1.00 32.91	В	C
ATOM	6791	N	ASP		103.743	82. 790	36.636	1.00 34.01	В	0
ATOM	6792	CA	ASP	133 133	105.041	82.165	38. 358	1.00 35.11	В	N
ATOM	6793	CB	ASP	133	105.674	83. 465	38. 539	1.00 36.35	В	C
ATOM	6794	CG	ASP	133	104. 954	84. 287	39.614	1.00 38.51	В	C
ATOM	6795		ASP	133	103. 732 102. 805	85.008	39.074	1.00 41.22	В	C
ATOM	6796		ASP	133	102. 303	84. 332 86. 253	38. 580	1.00 42.20	В	0
ATOM	6797	C	ASP	133	103. 102	83. 228	39. 139 38. 954	1.00 42.84	В	0
ATOM	6798	ŏ	ASP	133	107. 112	82. 438	39. 855	1.00 35.61	В	C
ATOM	6799	N	ILE	134	101. 383	83. 908		1.00 35.76	В	0
ATOM	6800	CA	ILE	134	108. 031		38. 285 38. 585	1.00 35.21	В	N
ATOM	6801	CB	ILE	134	110. 267	83. 764 83. 750		1.00 34.01 1.00 33.62	В	C
ATOM	6802		ILE	134	110. 207	83. 392	37. 287 37. 593		В	C
ATOM	6803		ILE	134	109.649	82. 737	36.312	1.00 31.90 1.00 32.72	В	C
ATOM	6804		ILE	134	110. 204	82. 794	34. 909	1.00 32.72	B R	C
ATOM	6805	C	ILE	134	109. 887	84. 911	39. 483	1.00 31.29	B B	C C
ATOM	6806	ŏ	ILE	134	109. 521	86.065	39. 261	1.00 34.02	В	0
ATOM	6807	Ň	TYR	135	110. 662	84. 573	40. 507	1.00 35.25	В	N N
ATOM	6808	CA	TYR	135	111.167	85. 539	41.475	1.00 36.09	В	C
ATOM	6809	CB	TYR	135	110.657	85.174	42. 868	1.00 36.03	В	C
ATOM	6810	CG	TYR	135	111. 222	86.011	44.000	1.00 36.66	В	Č

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										(Continued)
					FIC	3. 4 -	140			(Oomminada)
ATOM	6811	CD1	TYR	135	110. 635	87. 222	44. 363	1.00 34.73	В	С
ATOM	6812		TYR	135	111.134	87. 971	45.424	1.00 34.55	В	С
ATOM	6813		TYR	135	112.332	85. 573	44.729	1.00 35.12	В	C
ATOM	6814		TYR	135	112.839	86.316	45. 786	1.00 35.07	В	C
ATOM	6815	CZ	TYR	135	112. 235	87. 515	46. 131	1.00 35.31	В	C
ATOM	6816	OH	TYR	135	112.740	88. 258	47.179	1.00 35.05	В	0
ATOM	6817	C	TYR	135	112.688	85. 511	41.470	1.00 38.19	В	C
ATOM	6818	0	TYR	135	113. 293	84. 517	41.873	1.00 37.81	В	0
ATOM	6819	N	ASP	136	113. 304	86. 600	41.014	1.00 40.56	В	N
ATOM	6820	CA	ASP	136	114. 759	86. 692	40.965	1.00 42.09	В	C
ATOM	6821	CB	ASP	136	115. 187	87. 969	40. 237	1.00 42.45	В	C
ATOM	6822	CG	ASP	136 136	116.690	88. 051 88. 577	40.030	1.00 43.61	В	C
ATOM ATOM	6823 6824		ASP ASP	136	117. 107 117. 456	87. 602	38. 978 40. 911	1.00 45.53 1.00 41.77	B B	0 0
ATOM	6825	C	ASP	136	117.430	86. 679	40. 311	1.00 41.77	В	C
ATOM	6826	0	ASP	136	114. 972	87. 522	43. 209	1.00 43.14	В	0
ATOM	6827	N	LEU	137	116. 181	85. 713	42.656	1.00 44.92	В	N N
ATOM	6828	CA	LEU	137	116. 761	85. 577	43.978	1.00 48.26	В	Č
ATOM	6829	CB	LEU	137	117. 219	84. 135	44. 182	1.00 48.88	В	č
ATOM	6830	ĊĠ	LEU	137	116.058	83. 136	44. 117	1.00 49.07	B	Č
ATOM	6831		LEU	137	116.582	81.716	43. 991	1.00 50.17	B	Č
ATOM	6832		LEU	137	115. 199	83. 291	45.361	1.00 48.91	B	Č
ATOM	6833	C	LEU	137	117.908	86.544	44.228	1.00 50.19	B	Č
ATOM	6834	0	LEU	137	118. 309	86.750	45.370	1.00 51.45	В	0
ATOM	6835	N	ASN	138	118.429	87. 139	43.160	1.00 52.26	В	N
ATOM	6836	CA	ASN	138	119.522	88.096	43.280	1.00 53.21	В	C
ATOM	6837	CB	ASN	138	120. 330	88. 151	41.983	1.00 54.36	В	C
ATOM	6838	CG	ASN	138	120. 728	86. 775	41.484	1.00 56.39	В	С
ATOM	6839		ASN	138	121. 232	85. 945	42. 244	1.00 57.23	В	0
ATOM	6840		ASN	138	120. 512	86. 530	40. 194	1.00 56.67	В	N
ATOM	6841	C	ASN	138	118. 935	89.472	43.567	1.00 54.11	В	C
ATOM ATOM	6842 6843	0 N	ASN LYS	138	119. 259	90. 101	44.571	1.00 54.39	В	0
ATOM	6844	CA	LYS	139 139	118. 064 117. 417	89. 929 91. 228	42. 675 42. 814	1.00 55.06	В	N C
ATOM	6845	CB	LYS	139	116.807	91.657	41.480	1.00 56.16 1.00 56.75	В	C
ATOM	6846	CG	LYS	139	117. 726	91.520	40. 290	1.00 58.34	B B	C C
ATOM	6847	CD	LYS	139	116. 996	91.874	39.006	1.00 59.63	В	C
ATOM	6848	CE	LYS	139	117. 887	91.650	37. 793	1.00 61.32	В	Č
ATOM	6849	NZ	LYS	139	117. 196	91.995	36.518	1.00 62.59	В	N
ATOM	6850	C	LYS	139	116.302	91.183	43.857	1.00 56.78	В	Č
ATOM	6851	0	LYS	139	115.669	92.202	44.139	1.00 57.22	B	Ö
ATOM	6852	N	ARG	140	116.061	90.006	44.425	1.00 57.14	В	N
ATOM	6853	CA	ARG	140	114. 994	89.838	45.409	1.00 57.44	В	C
ATOM	6854	CB	ARG	140	115. 433	90.341	46.787	1.00 58.40	В	С
ATOM	6855	CG	ARG	140	116.063	89. 260	47.649	1.00 61.65	В	C
ATOM	6856	CD	ARG	140	116.091	89.658	49.116	1.00 64.17	В	C
ATOM	6857	NE CZ	ARG	140	116.578	88. 575	49.972	1.00 67.20	В	N
ATOM	6858	CZ	ARG	140	115. 979	87. 394	50.112	1.00 68.02	В	C
ATOM	6859	NH1	МИ	140	114.857	87.124	49. 453	1.00 68.21	B	N

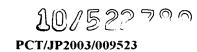
		FIG. 4-141	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6861 C ARG 6862 O ARG 6863 N GLN 6864 CA GLN 6865 CB GLN 6866 CG GLN 6867 CD GLN 6867 CD GLN 6869 NE2 GLN 6870 C GLN 6871 O GLN 6871 O GLN 6872 N LEU 6873 CA LEU 6874 CB LEU 6875 CG LEU 6876 CD1 LEU 6877 CD2 LEU 6877 CD2 LEU 6878 C LEU 6878 C LEU 6880 N ILE 6881 CA ILE 6881 CA ILE 6882 CB ILE 6883 CG2 ILE 6884 CG1 ILE 6885 CD1 ILE 6886 C ILE 6887 O ILE 6887 O ILE 6888 N THR 6889 CA THR 6890 CB THR 6890 CB THR 6891 OG1 THR 6891 OG1 THR 6892 CG2 THR 6893 C THR 6894 O THR 6895 N GLU 6897 CB GLU 16897 CB GLU 16897 CB GLU 1	140       116. 507       86. 478       50. 911       1. 00 68. 11         140       113. 697       90. 537       44. 994       1. 00 56. 16         140       113. 067       91. 225       45. 795       1. 00 56. 03         141       113. 315       90. 363       43. 733       1. 00 54. 56         141       112. 088       90. 947       43. 205       1. 00 53. 90         141       113. 166       92. 292       42. 522       1. 00 57. 86         141       113. 078       93. 477       40. 400       1. 00 59. 30         141       113. 078       93. 477       40. 400       1. 00 59. 30         141       113. 414       94. 562       40. 875       1. 00 60. 96         141       112. 620       93. 350       39. 158       1. 00 58. 33         141       112. 230       89. 362       41. 418       1. 00 52. 05         141       112. 230       89. 362       41. 418       1. 00 52. 50         142       110. 186       89. 794       42. 213       1. 00 50. 43         142       108. 196       88. 415       41. 815       1. 00 48. 84         142       108. 196       88. 415       41. 815       1. 00 48. 67	B
ATOM ATOM ATOM	6899 CD GLU 1	45 109.148 93.319 33.007 1.00 55.05 45 110.429 94.094 32.760 1.00 57.57	
ATOM ATOM	6901 OE2 GLU 1	45 110.696 94.443 31.591 1.00 60.26 45 111.167 94.357 33.737 1.00 59.47 45 107.946 89.822 31.834 1.00 46.87	B 0 B 0
ATOM ATOM	6903 0 GLU 1	45 108. 648 88. 916 32. 286 1. 00 46. 76	B C B O
ATOM ATOM	6905 CA GLU 1	46 107. 241 88. 458 29. 932 1. 00 45. 82	B N B C
ATOM	6907 CG GLU 1		B C
ATOM	6908 CD GLU 1	100 011 00 015 00 016	B C

				FIG. 4-142							
ATOM	6909			107. 685 88. 081 26. 543 1. 00 45. 03 B	0						
ATOM	6910			107. 641 90. 269 26. 387 1. 00 45. 44 B							
ATOM	6911	C GLU		106. 978 87. 241 30. 821 1. 00 46. 25 B	C						
ATOM	6912			107. 805 86. 334 30. 912 1. 00 47. 62 B	0						
ATOM	6913			105. 823 87. 221 31. 474 1. 00 44. 79 B	Ņ						
ATOM ATOM	6914			105. 475 86. 119 32. 360 1. 00 43. 34 B	C						
ATOM	6915 6916	CB ARG		104. 469 86. 595 33. 410 1. 00 44. 21 B	C						
ATOM	6917	CD ARG		104.998 87.678 34.320 1.00 46.85 B 103.995 88.007 35.410 1.00 49.84 B	C						
ATOM	6918	NE ARG			C						
ATOM	6919	CZ ARG			N C						
ATOM	6920	NH1 ARG	147	101. 733 88. 970 35. 584 1. 00 54. 21 B 101. 696 88. 699 36. 884 1. 00 53. 97 B	C N						
ATOM	6921	NH2 ARG	147	100.701 89.569 34.999 1.00 54.56 B	N N						
ATOM	6922	C ARG	147	104. 905 84. 894 31. 648 1. 00 41. 06 B	C						
ATOM	6923	0 ARG	147	104. 304 84. 996 30. 580 1. 00 41. 00 B	Ö						
ATOM	6924	N ILE	148	105. 103 83. 732 32. 259 1. 00 38. 31 B	N ·						
ATOM	6925	CA ILE	148	104. 590 82. 485 31. 721 1. 00 35. 74 B	Ċ						
ATOM	6926	CB ILE	148	105. 019 81. 305 32. 616 1. 00 35. 07 B	Č						
ATOM	6927	CG2 ILE	148	104. 458 79. 996 32. 073 1. 00 34. 22 B	Ċ						
ATOM	6928	CG1 ILE	148	106. 549 81. 255 32. 679 1. 00 33. 62 B	C						
ATOM	6929	CD1 ILE	148	107. 104 80. 131 33. 517 1. 00 34. 57 B	C						
ATOM	6930	C ILE	148	103. 069 82. 641 31. 709 1. 00 34. 54 B	C						
ATOM ATOM	6931	0 ILE	148	102. 492 83. 155 32. 664 1. 00 35. 51 B	0						
ATOM	6932 6933	N PRO CD PRO	149	102. 401 82. 199 30. 631 1. 00 32. 42 B	Ŋ						
ATOM	6934	CA PRO	149 149	102. 929 81. 387 29. 525 1. 00 30. 91 B	C						
ATOM	6935	CB PRO	149	100. 942 82. 321 30. 526 1. 00 31. 27 B 100. 632 81. 762 29. 134 1. 00 31. 04 B	C						
ATOM	6936	CG PRO	149	101 000 01 505	C						
ATOM	6937	C PRO	149	101. 963 81. 707 28. 437 1. 00 31. 84 B 100. 187 81. 549 31. 592 1. 00 31. 48 B	C						
ATOM	6938	0 PRO	149	100. 733 80. 643 32. 221 1. 00 30. 85 B	C 0						
ATOM	6939	N ASN	150	98. 927 81. 919 31. 794 1. 00 31. 40 B	N N						
ATOM	6940	CA ASN	150	98. 085 81. 206 32. 744 1. 00 31. 30 B	C						
ATOM	6941	CB ASN	150	96. 832 82. 019 33. 108 1. 00 31. 58 B	Č						
ATOM	6942	CG ASN	150	97. 086 83. 037 34. 211 1. 00 32. 97 B	č						
ATOM	6943	OD1 ASN	150	97. 676 82. 715 35. 244 1. 00 31. 95 B	Ö						
ATOM	6944	ND2 ASN	150	96. 624 84. 271 34. 004 1. 00 33. 51 B	N						
ATOM	6945	C ASN	150	97. 673 79. 929 32. 013 1. 00 30. 52 B	C						
ATOM	6946	O ASN	150	97. 722 79. 864 30. 777 1. 00 29. 37 B	0						
ATOM ATOM	6947	N ASN	151	97. 269 78. 917 32. 768 1. 00 30. 16 B	N						
ATOM	6948 6949	CA ASN CB ASN	151	96. 859 77. 657 32. 170 1. 00 29. 53 B	C						
ATOM	6950	CB ASN CG ASN	151 151	95. 715 77. 881 31. 186 1. 00 33. 04 B	C						
ATOM	6951	OD1 ASN	151	94. 489 78. 474 31. 850 1. 00 36. 73 B 94. 530 79. 586 32. 376 1. 00 38. 47 B	C						
ATOM	6952	ND2 ASN	151	00 000 55 500 01 001	0 N						
ATOM	6953	C ASN	151	00 000 50 005 01 150	N C						
ATOM	6954	0 ASN	151	98. 023 76. 997 31. 452 1. 00 28. 44 B 97. 856 76. 412 30. 382 1. 00 27. 56 B	C 0						
ATOM	6955	N THR	152	99. 212 77. 111 32. 035 1. 00 26. 08 B	N						
ATOM	6956	CA THR	152	100. 384 76. 489 31. 452 1. 00 24. 37 B	Č						
ATOM	6957	CB THR	152	101.682 77.069 32.046 1.00 25.30 B	Č						
				_	-						

										(Continued)
					FI	G. 4 -	143			(Continued)
ATOM	6958	0G1			101.862		31.566	1.00 25.07	В	0
ATOM	6959	CG2			102. 882		31.643	1.00 24.98	В	C
ATOM	6960	C	THR		100. 257		31. 791	1.00 22.65	В	C
ATOM	6961	0	THR		99. 908		32. 912	1.00 21.72	В	0
ATOM	6962	N	GLN		100. 531	74. 160	30. 815	1.00 21.08	В	N
ATOM	6963	CA	GLN		100.407	72. 730	31.010	1.00 20.14	В	C
ATOM	6964	CB	GLN		100.023	72. 081	29. 691	1.00 20.22	В	C
ATOM	6965	CG	GLN		98. 688	72. 573	29. 166	1.00 20.23	В	C
ATOM ATOM	6966 6967	CD OE 1	GLN GLN	153	98. 577	72.461	27. 669	1.00 21.29	В	C
ATOM	6968	NE 2		153	99. 365	73.054	26. 939	1.00 24.47	В	0
ATOM	6969	C	GLN	153 153	97. 600	71.703	27. 200	1.00 20.51	В	N C
ATOM	6970	0	GLN	153	101.650 101.574	72. 076 70. 996	31.578	1.00 20.86 1.00 22.44	B B	C
ATOM	6971	N	TRP	154	101. 574	72. 729	32. 154 31. 422	1.00 22.44	В	0 N
ATOM	6972	CA	TRP	154	104. 043	72. 189	31. 422	1.00 20.43	В	N C
ATOM	6973	CB	TRP	154	104. 387	70. 868	31. 234	1.00 18.88	В	C
ATOM	6974	CG	TRP	154	105. 678	70. 257	31.719	1.00 19.59	В	C
ATOM	6975	CD2		154	105. 891	69. 559	32. 955	1.00 17.98	В	Č
ATOM	6976	CE2		154	107. 261	69. 232	33.019	1.00 19.74	В	Č
ATOM	6977		TRP	154	105.058	69. 184	34.015	1.00 16.08	B .	č
ATOM	6978		TRP	154	106.893	70.316	31.101	1.00 20.53	В	č
ATOM	6979		TRP	154	107.849	69.705	31.877	1.00 22.41	B	N
ATOM	6980		TRP	154	107.819	68.545	34.104	1.00 18.81	B	Ċ
ATOM	6981	CZ3	TRP	154	105.614	68.502	35.097	1.00 14.46	В	Č
ATOM	6982		TRP	154	106.981	68.191	35.130	1.00 14.70	В	C
ATOM	6983	C	TRP	154	105.172	73.186	31.757	1.00 18.38	В	C
ATOM	6984	0	TRP	154	105. 159	74.005	30.840	1.00 17.07	В	0
ATOM	6985	N	VAL	155	106. 139	73.118	32.658	1.00 18.34	В	N
ATOM	6986	CA	VAL	155	107. 280	74.010	32.627	1.00 20.45	В	C
ATOM.	6987	CB	VAL	155	107.030	75. 298	33. 457	1.00 21.97	В	C
ATOM	6988		VAL	155	106.881	74. 954	34. 937	1.00 21.60	В	C C
ATOM	6989		VAL	155	108. 180	76. 281	33. 260	1.00 20.89	В	
ATOM -	6990	C	VAL	155	108. 439	73. 255	33. 236	1.00 21.60	В	C
ATOM ATOM	6991	0	VAL	155	108. 241	72.379	34.075	1.00 21.26	В	0
ATOM	6992 6993	N CA	THR THR	156	109.647	73. 590	32.806	1.00 22.32	В	N
ATOM	6994	CB	THR	156 156	110.826	72.929	33. 325	1.00 23.44	В	C
ATOM	6995	0G1	THR	156	111.028 112.350	71.569	32.677	1.00 24.53	В	C
ATOM	6996		THR	156	112. 350	71.113 71.662	32. 972 31. 166	1.00 25.64 1.00 25.95	В	0
ATOM	6997	C	THR	156	112.092	73. 727	33. 094	1.00 25.95	В	C
ATOM	6998	ŏ	THR	156	112. 305	74. 274	32. 010	1.00 24.37	В	C
ATOM	6999	N	TRP	157	112. 929	73. 795	34. 123	1.00 23.30	B B	O N
ATOM	7000	CA	TRP	157	114. 192	74. 500	34. 021	1.00 23.78	В	C
ATOM	7001	CB	TRP	157	114. 848	74.650	35. 399	1.00 22.02	В	Č
ATOM	7002	CG	TRP	157	114. 239	75.678	36. 293	1.00 21.39	В	Č
ATOM	7003	CD2		157	114. 197	77.091	36.070	1.00 22.25	B	č
ATOM	7004	CE2	TRP	157	113.533	77.668	37. 177	1.00 23.29	B	č
ATOM	7005	CE3		157	114.658	77.928	35.046	1.00 21.12	B	Č
ATOM	7006	CD1	TRP	157	113.621	75.460	37. 492	1.00 22.04	В	С

·											
FIG. 4-144											
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7007 7008 7009 7010 7011 7012 7013 7014 7015 7016 7017 7018 7019 7020 7021 7022 7023 7024 7025 7026 7027 7028 7029 7030	CZ: CZ: CH2 C O N CA CB OG C O N CCA CB CC CB CC CB CC CB CC CC CC CC CC CC	TRP TRP SER SER SER SER PRO PRO PRO PRO PRO VAL VAL VAL	157 157 157 157 157 158 158 158 158 158 159 159 159 159 160 160 160 160	113. 193	6. 650 9. 051 9. 299 9. 846 3. 640 2. 483 4. 211 3. 441 4. 377 5. 444 2. 667 3. 006 1. 619 1. 096 0. 744 0. 660 1. 738 1. 619 1. 619 1. 619 1. 619 1. 620 1. 620	38. 030 37. 286 35. 156 36. 270 33. 153 32. 882 32. 697 31. 928 31. 172 31. 996 33. 017 34. 198 32. 650 31. 307 32. 886 31. 599 34. 391 35. 589 33. 627 34. 146 33. 438 33. 939	1.00 22.01 1.00 22.77 1.00 22.58 1.00 21.74 1.00 22.79 1.00 23.16 1.00 21.93 1.00 22.68 1.00 23.20 1.00 23.12 1.00 23.12 1.00 23.58 1.00 23.10 1.00 23.69 1.00 24.45 1.00 23.97 1.00 25.41 1.00 26.39 1.00 27.71 1.00 29.28 1.00 30.65 1.00 31.96	B B B B B B B B B B B B B B B B B B B	(Continued)  N C C C C C C C C C C C C C C C C C C	
ATOM ATOM ATOM ATOM ATOM	7024 7025 7026 7027 7028 7029	C O N CA CB CG1 CG2 C O N CA C C O N CA CB CC C C C C C C C C C C C C C C C	PRO PRO VAL VAL VAL VAL VAL VAL GLY GLY HIS HIS HIS HIS HIS HIS	159 159 160 160 160	120. 384 71 120. 598 71 121. 014 72 122. 031 73 123. 383 73 124. 421 74 123. 844 71 121. 606 74 120. 889 75 122. 043 75 121. 706 77 120. 289 77 119. 839 77 119. 839 77 119. 584 78 118. 222 78 118. 214 79 119. 019 81 118. 664 82 120. 378 81 120. 378 81 120. 824 82 119. 804 82 117. 384 79	. 738 . 619 . 619 . 517 . 272 . 249 . 840 . 952 . 224 . 866 . 266 . 359 . 296 . 721 . 959 . 094 . 148 . 208 . 283 . 871	34. 391 35. 589 33. 627 34. 146 33. 438 33. 939 33. 670 33. 885 32. 923 34. 745 34. 562 34. 944 36. 053 34. 025 34. 025 34. 290 35. 177 34. 629 33. 857 34. 830 34. 207 33. 608 33. 059	1.00 25.41 1.00 26.39 1.00 27.71 1.00 29.28 1.00 30.65	B B B B B B B B B B B B B B B B B B B	CONCCCCONCCNCNCNC	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7047 7048 7049 7050 7051 7052 7053 7054 7055	N CA CB CG CD CE NZ C	LYS LYS LYS LYS LYS LYS LYS LYS LYS LYS	163 163 163 163 163 163 163 163	117. 406 78. 116. 575 78. 117. 113 77. 118. 367 78. 118. 797 77. 120. 103 77. 120. 616 77. 115. 215 77.	. 135 . 340 . 578 . 184 . 407 . 930 . 045 . 779	32. 067 30. 889 29. 675 29. 063 27. 841 27. 282 26. 195 31. 266	1.00 24.17 1.00 22.79 1.00 23.10 1.00 22.90 1.00 23.40 1.00 22.69 1.00 23.67 1.00 24.56 1.00 24.69	B B B B B B B	0 N C C C C C N C	

					FIG. 4-145						
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7056 7057 7058 7059 7060 7061 7062 7063 7064 7065 7066 7067 7068 7070 7071 7072 7073 7074	CD2 C O N CA CB C CO CB CG CD1 CE1	TYR	164 164 164 164 164 165 165 165 165 166 166 166	FIG. 4 - 145  114. 210   78. 062   30. 450   1. 00   24. 82   B   112. 870   77. 572   30. 704   1. 00   24. 27   B   111. 991   78. 672   31. 293   1. 00   25. 27   B   112. 216   78. 969   32. 769   1. 00   25. 61   B   111. 420   80. 181   33. 178   1. 00   25. 08   B   111. 802   77. 756   33. 582   1. 00   28. 15   B   112. 231   77. 068   29. 435   1. 00   25. 20   B   112. 438   77. 616   28. 353   1. 00   26. 77   B   111. 461   76. 003   29. 581   1. 00   24. 98   B   110. 736   75. 408   28. 479   1. 00   23. 92   B   111. 408   74. 127   28. 021   1. 00   23. 20   B   109. 394   75. 106   29. 114   1. 00   25. 13   B   109. 326   74. 494   30. 188   1. 00   24. 88   B   108. 326   75. 565   28. 481   1. 00   24. 06   B   107. 016   75. 317   29. 027   1. 00   24. 24   B   106. 556   76. 522   29. 866   1. 00   27. 58   B   106. 370   77. 826   29. 115   1. 00   30. 69   B   105. 171   78. 115   28. 465   1. 00   31. 46   B   104. 981   79. 329   27. 800   1. 00   32. 97   B	(Continued)  N C C C C C C C C C C C C C C C C C C					
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7074 7075 7076 7077 7078 7079 7080 7081 7082 7083 7084 7085 7086 7087 7088 7090 7091 7092 7093 7094 7095 7096 7097 7098	CD2 CE2 CZ OH C O N CA CB CG1 CG2 C CD2 CE2 CE3 CD1 NE1 CZ2	TYR	166 166 166 166 166 166 167 167 167 167	104. 981       79. 329       27. 800       1. 00       32. 97       B         107. 386       78. 787       29. 077       1. 00       33. 05       B         107. 210       80. 005       28. 412       1. 00       34. 06       B         105. 999       80. 270       27. 779       1. 00       34. 75       B         105. 789       81. 485       27. 162       1. 00       34. 83       B         106. 039       75. 003       27. 917       1. 00       23. 86       B         106. 276       75. 333       26. 754       1. 00       22. 73       B         104. 955       74. 321       28. 266       1. 00       22. 73       B         103. 960       73. 994       27. 269       1. 00       22. 82       B         103. 687       72. 487       27. 215       1. 00       21. 03       B         102. 528       72. 200       26. 274       1. 00       17. 71       B         104. 933       71. 770       26. 725       1. 00       20. 37       B         102. 162       74. 779       28. 692       1. 00       24. 72       B         102. 162       75. 394       26. 531       1. 00 <td>C C C C C C C C C C C C C C C C C C C</td>	C C C C C C C C C C C C C C C C C C C					
ATOM ATOM ATOM ATOM ATOM ATOM	7099 7100 7101 7102 7103 7104		TRP TRP TRP ASN ASN ASN	168 168 168 169 169 169	97. 962 81. 456 24. 910 1. 00 28. 86 B 100. 072 75. 838 25. 444 1. 00 22. 93 B 100. 577 75. 692 24. 328 1. 00 21. 98 B 98. 768 75. 705 25. 675 1. 00 21. 44 B 97. 830 75. 350 24. 610 1. 00 22. 01 B 97. 394 76. 580 23. 813 1. 00 23. 30 B	C C O N C C					



										(Continued)
					FIG	G. 4-	146			(Continued)
ATOM	7105	CG	ASN	169	96.682	77.615	24.662	1.00 27.95	В	C
ATOM	7106	0D1		169	96. 240	78. 640	24. 150	1.00 32.66	В	0
ATOM	7107		ASN	169	96.570	77. 361	25.961	1.00 30.33	В	N
ATOM	7108	C	ASN	169	98. 463	74. 345	23. 655	1.00 21.23	В	C
ATOM	7109	0	ASN	169	98. 455	74. 541	22. 441	1.00 22.01	В	0
ATOM	7110	N	ASN	170	99. 031	73. 283	24. 221	1.00 20.60	В	N
ATOM	7111	CA	ASN	170	99.661	72. 208	23. 459	1.00 20.97	В	C
ATOM	7112	CB	ASN	170	98. 615	71.515	22. 592	1.00 18.68	В	C
ATOM	7113	CG	ASN	170	97. 629	70. 741	23. 412	1.00 18.15	В	C
ATOM	7114		ASN	170	97. 158	71. 224	24. 440	1.00 16.27	В	0
ATOM ATOM	7115 7116	C	ASN ASN	170 170	97. 300	69. 529	22.966	1.00 18.92	В	N C
ATOM	7117	Õ	ASN	170	100.859 101.194	72. 581 71. 861	22. 598 21. 659	1.00 21.31 1.00 20.36	B B	C 0
ATOM	7118	N	ASP	171	101. 194	73. 697	22. 916	1.00 20.30	В	N N
ATOM	7119	CA	ASP	171	101. 504	74. 122	22. 160	1.00 22.10	В	C
ATOM	7120	CB	ASP	171	102. 354	75. 364	21. 334	1.00 23.05	В	C
ATOM	7121	CG	ASP	171	101.794	75.017	19. 978	1.00 23.72	В	Č
ATOM	7122		ASP	171	102. 505	74. 338	19. 210	1.00 23.33	В	ŏ
ATOM	7123		ASP	171	100.650	75. 415	19.679	1.00 26.97	В	ő
ATOM	7124	C	ASP	171	103.850	74.380	23. 073	1.00 23.59	B	Č
ATOM	7125	0	ASP	171	103.672	74.647	24. 264	1.00 24.18	B	Ö
ATOM	7126	N	ILE	172	105.051	74.301	22.508	1.00 23.60	B	Ň
ATOM	7127	CA	ILE	172	106. 273	74.497	23. 281	1.00 25.23	B	Č
ATOM	7128	CB	ILE	172	107. 353	73.456	22.885	1.00 23.64	В	C
ATOM	7129		ILE	172	108.480	73.466	23.896	1.00 23.11	В	С
ATOM	7130		ILE	172	106.743	72.056	22.846	1.00 23.95	В	C
ATOM	7131		ILE	172	107. 707	70.986	22. 374	1.00 23.66	В	С
ATOM	7132	C	ILE	172	106.878	75.892	23. 129	1.00 25.59	В	С
ATOM	7133	0	ILE	172	106.881	76.474	22.048	1.00 25.83	В	0
ATOM	7134	N	TYR	173	107. 389	76.414	24. 236	1.00 26.85	В	Ŋ
ATOM	7135	CA	TYR	173	108.025	77. 720	24. 272	1.00 27.95	В	C
ATOM ATOM	7136 7137	CB CG	TYR TYR	173	107.111	78. 760	24. 933	1.00 27.81	В	C
ATOM	7138		TYR	173 173	105.822	79.002	24. 190	1.00 29.53	В	C
ATOM	7139	CE1		173	104. 788 103. 599	78. 063 78. 271	24. 226	1.00 29.72	В	C
ATOM	7140		TYR	173	105. 634	80. 162	23. 535 23. 439	1.00 29.08 1.00 28.71	B B	C
ATOM	7141		TYR	173	103. 034	80. 381	23. 439	1.00 28.71	В	C
ATOM	7142	CZ	TYR	173	103. 432	79.429	22. 794	1.00 30.14	В	C C
ATOM	7143	OH	TYR	173	102. 258	79. 625	22. 103	1.00 30.02	В	0
ATOM	7144	C	TYR	173	109. 308	77. 592	25. 080	1.00 28.66	В	C
ATOM	7145	Ŏ	TYR	173	109.412	76. 735	25. 960	1.00 28.10	В	ŏ
ATOM	7146	N	VAL	174	110. 276	78. 451	24. 782	1.00 29.35	B	Ň
ATOM	7147	CA	VAL	174	111.551	78.443	25.480	1.00 29.22	$\tilde{\mathbf{B}}$	Ċ
ATOM	7148	CB	VAL	174	112.669	77.855	24. 587	1.00 29.66	B	č
ATOM	7149		VAL	174	114.006	77.936	25.303	1.00 30.07	B	Č
ATOM	7150		VAL	174	112.351	76.403	24. 231	1.00 30.25	В	Č .
ATOM	7151	C	VAL	174	111.953	79.857	25.887	1.00 30.16	В	С
ATOM	7152	0	VAL	174	111.787	80.804	25. 125	1.00 31.81	В	0
ATOM	7153	N	LYS	175	112.474	79.990	27. 099	1.00 29.78	В	N

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					FIC	3. 4 -	147			•
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7154 7155 7156 7157 7158 7159 7160 7161 7162 7163 7164 7165 7166 7167 7168 7170 7171 7172 7173 7174 7175 7176 7177	CG1 CD1 C O N CA CB CG CD OE1 OE2 C	LYS	175 175 175 175 175 175 175 176 176 176 176 176 177 177 177 177	112. 940 112. 090 110. 809 109. 876 110. 479 110. 664 114. 382 114. 662 115. 294 116. 710 117. 572 118. 942 117. 697 116. 377 116. 956 117. 910 116. 085 116. 182 116. 901 118. 342 119. 324 120. 511 118. 914 114. 762	81. 269 81. 725 82. 428 82. 551 83. 384 84. 791 81. 107 80. 355 81. 813 81. 764 82. 363 82. 730 81. 354 80. 941 82. 528 82. 251 83. 489 84. 296 85. 611 85. 272 84. 988 85. 433 84. 569	27. 608 28. 794 28. 413 29. 611 30. 725 30. 307 28. 064 28. 999 27. 401 27. 749 26. 624 27. 146 25. 483 24. 861 29. 768 29. 330 30. 543 30. 241 29. 770 30. 916 30. 642 32. 088 31. 034	1.00 28.47 1.00 28.38 1.00 29.46 1.00 32.27 1.00 31.57 1.00 28.80 1.00 28.36 1.00 28.58 1.00 28.19 1.00 27.21 1.00 25.54 1.00 28.29 1.00 27.38 1.00 29.36 1.00 29.36 1.00 31.44 1.00 33.96 1.00 35.87 1.00 37.59 1.00 39.82 1.00 40.62 1.00 40.43 1.00 34.61	B B B B B B B B B B B B B B B B B B B	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7178 7179 7180 7181 7182 7183 7184 7185 7186 7187 7188 7189 7190 7191 7192 7193 7194 7195 7196 7197 7198 7199 7200 7201 7202	O N CD CA CB CG OD1 ND2 C O N CA CB CG CD1	GLU PRO PRO PRO PRO PRO PRO ASN ASN ASN ASN ASN LEU LEU LEU LEU LEU PRO	177 178 178 178 178 178 178 178 178 179 179 179 179 179 179 179 180 180 180 180 180 180 180 180 180	113. 905 114. 495 115. 451 113. 160 113. 383 114. 862 112. 451 111. 225 113. 198 112. 560 113. 211 114. 454 115. 419 114. 437 112. 573 112. 205 112. 995 113. 030 114. 357 115. 621 116. 828 115. 522 111. 898 111. 406 111. 462	85. 007 84. 312 83. 907 84. 530 84. 557 84. 563 85. 859 86. 912 88. 188 89. 329 89. 860 89. 131 91. 142 88. 540 89. 650 87. 608 87. 875 87. 417 88. 014 87. 572 89. 536 87. 166 86. 149 87. 704	30. 268 32. 323 33. 367 32. 894 34. 402 34. 587 32. 547 32. 346 32. 346 32. 321 32. 807 32. 137 31. 915 31. 806 30. 535 30. 159 29. 689 28. 260 27. 662 28. 279 27. 470 28. 303 27. 547 28. 015 26. 400	1. 00 35. 24 1. 00 35. 24 1. 00 35. 55 1. 00 36. 07 1. 00 35. 46 1. 00 35. 40 1. 00 35. 74 1. 00 35. 44 1. 00 36. 89 1. 00 37. 31 1. 00 37. 54 1. 00 37. 86 1. 00 39. 14 1. 00 40. 48 1. 00 36. 88 1. 00 38. 11 1. 00 36. 88 1. 00 38. 11 1. 00 35. 31 1. 00 35. 31 1. 00 37. 09 1. 00 37. 24 1. 00 33. 52 1. 00 32. 50 1. 00 34. 20	B B B B B B B B B B B B B B B B B B B	O N C C C C C O N C C C C C C C C C C C

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FIG. 4-148											
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7204 CA PI 7205 CB PI 7206 CG PI 7207 C PI 7208 O PI 7209 N SI 7210 CA SE 7211 CB SE 7212 OG SE 7213 C SE 7214 O SE 7215 N TY 7216 CA TY 7217 CB TY	ER 182 ER 182 ER 182 ER 182 FR 183 FR 183 FR 183	FIG. 4 - 148  111.853 88.984 25.784 1.00 33.21 B 110.373 87.075 25.645 1.00 33.57 B 110.337 87.890 24.357 1.00 33.27 B 110.691 89.259 24.846 1.00 33.21 B 110.681 85.608 25.397 1.00 33.03 B 111.829 85.180 25.497 1.00 33.18 B 109.654 84.838 25.070 1.00 33.87 B 109.835 83.415 24.829 1.00 32.06 B 108.752 82.622 25.547 1.00 31.33 B 107.505 82.817 24.909 1.00 30.50 B 109.759 83.117 23.350 1.00 31.89 B 109.077 83.812 22.606 1.00 33.14 B 110.463 82.077 22.927 1.00 31.53 B 110.453 81.677 21.532 1.00 30.47 B 111.832 81.159 21.118 1.00 30.68	(Continued)  C C C C C C C C C O N C C C C C C C C							
ATOM 77	7218 CG TY 7219 CD1 TY 7220 CE1 TY 7221 CD2 TY 7222 CE2 TY 7223 CZ TY 7224 OH TY 7225 C TY 7226 O TY 7227 N AR 7228 CA AR 7228 CA AR 7229 CB AR 7230 CG AR 7231 CD AR 7219 CD AR	R 183 G 184 G 184 G 184 G 184 G 184	112.962       82.117       21.408       1.00       32.75       B         113.490       82.235       22.696       1.00       32.39       B         114.517       83.134       22.977       1.00       33.30       B         113.492       82.926       20.398       1.00       33.06       B         114.520       83.832       20.667       1.00       34.20       B         115.028       83.932       21.959       1.00       34.92       B         116.036       84.832       22.233       1.00       34.60       B         109.423       80.568       21.384       1.00       29.28       B         109.387       79.645       22.196       1.00       29.66       B         108.579       80.659       20.364       1.00       27.67       B         107.573       79.631       20.148       1.00       26.57       B         105.215       79.191       19.285       1.00       28.64       B         103.860       79.825       19.004       1.00       30.29       B	C C C C C O N C C C C C							
ATOM 72	232 NE ARG 233 CZ ARG 234 NH1 ARG 235 NH2 ARG 236 C ARG 237 O ARG 238 N ILE 239 CA ILE 240 CB ILE 241 CG2 ILE 242 CG1 ILE 243 CD1 ILE 244 C ILE 245 O ILE 246 N THR 247 CA THR 248 CB THR 249 OG1 THR 250 CG2 THR 250 CG2 THR	G 184 G 184 G 184 G 185 G 185 G 185 G 185 G 185 G 185 G 186 G	102. 827       78. 805       18. 831       1. 00       31. 47       B         101. 526       79. 052       18. 706       1. 00       29. 99       B         100. 678       78. 048       18. 552       1. 00       30. 76       B         101. 068       80. 294       18. 740       1. 00       30. 05       B         108. 185       78. 553       19. 272       1. 00       26. 51       B         108. 375       78. 754       18. 072       1. 00       28. 42       B         108. 493       77. 411       19. 876       1. 00       24. 50       B         109. 112       76. 303       19. 165       1. 00       22. 88       B         109. 773       75. 319       20. 159       1. 00       23. 12       B         110. 492       74. 216       19. 405       1. 00       22. 56       B         110. 753       76. 067       21. 064       1. 00       22. 32       B         111. 869       76. 770       20. 324       1. 00       21. 93       B         108. 569       74. 930       17. 275       1. 00       24. 00       B         105. 886       74. 750       17. 840       1. 00 <td>N C N C C C C C C C C C C C C C C C C C</td>	N C N C C C C C C C C C C C C C C C C C							

FIG. 4-149												
ATOM ATOM ATOM ATOM	7252 0 7253 N 7254 CA 7255 CB		187 187	104. 266 103. 935 102. 717 103. 007	76. 469 75. 179 75. 876	18. 265 16. 457 16. 049	1.00 22.05 1.00 24.88 1.00 25.32 1.00 25.43	В В В В	O N C C			
ATOM ATOM ATOM	7256 CG 7257 CD 7258 CE 7259 CE	TRP 2 TRP 2 TRP 3 TRP	187 187 187 187	104. 159 104. 093 105. 420 103. 041	77. 694 79. 092 79. 548 80. 007	15. 025 15. 321 15. 487 15. 464	1.00 25.95 1.00 26.73 1.00 26.07 1.00 27.09	B B B B	C C C C			
ATOM ATOM ATOM ATOM ATOM	7261 NE 7262 CZ 7263 CZ	2 TRP 3 TRP	187 187 187	105. 485 106. 249 105. 723 103. 346 104. 679	78. 474 80. 878		1.00 26.93 1.00 26.08 1.00 24.50 1.00 26.71 1.00 25.13	B B B B	C N C C C			
ATOM ATOM ATOM ATOM ATOM	7265 C 7266 O 7267 N 7268 CA 7269 CB	TRP TRP THR THR	187 1 187 1 188 1 188 1	01. 555 00. 481 01. 759 00. 708	74. 941 75. 402 73. 636 72. 672	15. 709 15. 339 15. 839 15. 516	1.00 26.00 1.00 27.74 1.00 26.58 1.00 26.89	В В В В	C O N C			
ATOM ATOM ATOM ATOM	7270 OG1 7271 CG2 7272 C 7273 O	THR THR THR THR	188 1 188 1 188 188	01. 304 02. 291 01. 940 99. 817 98. 916	71. 388 70. 836 71. 697 72. 259 71. 437	14. 895 15. 781 13. 552 16. 687 16. 512	1.00 26.63 1.00 27.13 1.00 25.34 1.00 27.17 1.00 26.92	B B B B	C O C C			
ATOM ATOM ATOM ATOM ATOM	7274 N 7275 CA 7276 C 7277 O 7278 N	GLY I GLY I	189 189 189	00. 064 99. 278 97. 783 97. 333 97. 007	72. 827 72. 491 72. 645 73. 673 71. 636	17. 866 19. 045 18. 847 18. 345 19. 242	1.00 26.58 1.00 27.32 1.00 28.44 1.00 30.95 1.00 27.83	B B B B	N C C O N			
ATOM ATOM ATOM ATOM ATOM	7279 CA 7280 CB 7281 CG 7282 CD 7283 CE	LYS 1 LYS 1 LYS 1 LYS 1	190 190 190 190	95. 554 95. 187 93. 695 93. 498	71.686 71.381 71.294 71.031	19. 085 17. 628 17. 317 15. 821	1.00 27.15 1.00 29.55 1.00 31.55 1.00 36.65	В В В В	C C C			
ATOM ATOM ATOM ATOM	7284 NZ 7285 C 7286 O 7287 N	LYS 1 LYS 1 LYS 1 GLU 1	90 9 90 9 90 9 91 9	92. 043 91. 127 94. 815 94. 738	70. 731 71. 870 70. 731 69. 523 71. 299	15. 458 15. 744 20. 028 19. 786 21. 096	1.00 39.17 1.00 41.50 1.00 26.61 1.00 25.87 1.00 25.05	B B B B	C N C O N			
ATOM ATOM ATOM ATOM ATOM	7288 CA 7289 CB 7290 CG 7291 CD 7292 OE1	GLU 1 GLU 1 GLU 1 GLU 1	91 9 91 9 91 9	93. 516 92. 461 91. 821 90. 752	70. 558 71. 475 70. 933 71. 859 71. 522	23. 987 24. 514	1.00 25.10 1.00 26.71 1.00 29.36 1.00 34.15 1.00 36.46	B B B B	C C C C			
ATOM ATOM ATOM ATOM ATOM	7293 OE2 7294 C 7295 O 7296 N 7297 CA	GLU 1 GLU 1 ASP 1	91 9 91 9 91 9 92 9	0. 551 2. 849 2. 031 3. 208 2. 707	72. 932 69. 263 69. 280 68. 157 66. 811	23. 899 21. 631 20. 713 22. 287	1.00 35.96 1.00 23.31 1.00 20.17 1.00 23.70 1.00 24.98	B B B B	0 C 0 N			
ATOM ATOM ATOM	7298 CB	ASP 19	92 9 92 9	1. 183 0. 700 1. 335	66. 733 67. 200 66. 855	22. 149 23. 508	1.00 24.98 1.00 27.27 1.00 30.85 1.00 32.45	В В В В	C C C			

				F I	G. 4	- 15	0		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7313 7314 7315 7316 7317 7318 7319 7320 7321 7322 7323 7324 7325 7326 7327 7328 7329 7329 7330 7331 7332 N	O A I CA I CB I CG2 I CG1 I CG1 I CG2 I CG1 I CG2 I CG1 I CG3 I CG	ASP 192 ASP 193 ASP 194 ASP 194 ASP 194 ASP 194 ASP 195 ASP 196 ASP 197 ASP 19	89. 67 93. 07 92. 43 94. 09 94. 48 93. 97 94. 42 92. 44 91. 78 96. 59 98. 13 98. 618 100. 146 97. 972 98. 331 98. 779 98. 544 99. 580 100. 272 100. 079 98. 647 97. 873 96. 584 98. 087 96. 797 96. 052 94. 785 101. 771 102. 412 102. 334 103. 762 104. 011	71 67. 90 72 66. 32 71 65. 42 71 66. 92 75 66. 51 70 67. 55 71 67. 55 72 66. 24 73 66. 24 74 66. 39 75 67. 51 76 67. 50 76 68. 42 76 68. 42 76 68. 42 76 68. 42 76 68. 33 76 68. 33 76 68. 42 76 68. 33 76 68. 42 76 68. 33 76 78 76 78 76 78 76 78 76 79 76 78 76 78 77 68 79 77 68 71 77 68 71 77 68 71 77 7	8 23. 54 9 20. 60 6 20. 00 2 18. 66 2 17. 59 7 16. 21 2 17. 62 3 17. 21 6 17. 21 6 18. 54 7 18. 334 9 18. 682 17. 456 17. 377 16. 133 15. 678 19. 895 20. 337	8 1.00 32.44 2 1.00 25.95 5 1.00 27.81 0 1.00 25.46 5 1.00 25.50 5 1.00 26.97 2 1.00 26.11 1 1.00 27.90 1 1.00 29.23 6 1.00 25.04 1 1.00 26.34 2 1.00 22.43 1 1.00 21.58 1 1.00 18.60 1 1.00 19.45 1 1.00 21.61 1 1.00 22.13 1 1.00 19.09 1 1.00 20.45	B B B B B B B B B B B B B B B B B B B	(Continued)  0 C 0 N C C C C C C C C C C C C C C C
ATOM ATOM ATOM	7336 0	CG AS D1 AS D2 AS	N 196	103. 366 103. 769	70. 106 69. 311	19. 489 18. 632	1.00 17.04 1.00 16.41	B B	C 0
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7338 C 7339 O 7340 N 7341 C 7342 C 7343 O 7344 N 7345 C 7346 C	ASI ASI GLY A GLY GLY ILE A ILE B ILE	N 196 N 196 Y 197 Y 197 Y 197 Y 197 E 198 E 198	102. 362 104. 380 103. 976 105. 355 105. 976 105. 185 105. 660 103. 976 103. 129 101. 956	70. 943 69. 160 70. 066 68. 344 68. 533 67. 948 67. 954 67. 469 66. 842 67. 740	19. 267 23. 104 23. 828 23. 479 24. 778 25. 941 27. 088 25. 654 26. 667 27. 160	1. 00 17. 01 1. 00 18. 89 1. 00 21. 80 1. 00 18. 21 1. 00 18. 42 1. 00 18. 43 1. 00 17. 86 1. 00 15. 16 1. 00 14. 58 1. 00 12. 66	B B B B B B B	N C O N C C O N C
ATOM ATOM ATOM	7348 C	G2 ILE G1 ILE D1 ILE	198	102. 477 101. 189 99. 936	68. 784 68. 334 69. 129	28. 109 25. 970 26. 368	1. 00 10. 73 1. 00 14. 13 1. 00 13. 46	B B B	C C C

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					FI	G. 4-	151			(Continued)
ATOM ATOM ATOM	7350 7351 7352	C O N	ILE ILE THR	198 198 199	102. 523 102. 354 102. 182	65. 447 64. 671	26. 101 24. 895 26. 990	1.00 14.46 1.00 16.78 1.00 15.77	B B	C O N
ATOM ATOM ATOM	7353 7354 7355	CA CB OG1		199 199 199	101.600 101.982 101.683	62. 350 62. 861	26. 608 27. 630 28. 937	1.00 15.94 1.00 15.69 1.00 12.99	В В В	C C O
ATOM ATOM ATOM	7356 7357 7358	C 0	THR THR THR	199 199 199	103. 473 100. 085 99. 452	63. 448 64. 311	27. 534 26. 522 27. 133	1.00 15.54 1.00 15.87 1.00 16.77	В В В	C C O
ATOM ATOM ATOM	7359 7360 7361	N CA CB	ASP ASP ASP	200 200 200	99. 510 98. 058 97. 654	62. 534 62. 450 61. 812	25. 745 25. 619 24. 279	1.00 16.29 1.00 16.42 1.00 17.56	В В В	N C C
ATOM ATOM ATOM	7362 7363 7364	OD2	ASP ASP ASP	200 200 200	97. 960 98. 894 97. 267	60. 321 59. 847 59. 624	24. 207 24. 892 23. 438	1.00 19.40 1.00 20.07 1.00 19.79	В В В	C 0 0
ATOM ATOM ATOM	7365 7366 7367	C O N	ASP ASP TRP	200 200 201	97. 657 98. 502 96. 404	61. 578 61. 278 61. 151	26. 806 27. 648 26. 889	1. 00 15. 56 1. 00 16. 67 1. 00 14. 09	В В В	C O N
ATOM ATOM ATOM ATOM	7368 7369 7370 7371	CA CB CG	TRP TRP TRP TRP	201 201 201 201	96. 003 94. 503 94. 023	60. 368 60. 106 59. 554	28. 049 28. 037 29. 348	1. 00 13. 08 1. 00 13. 25 1. 00 12. 63	B B B	C C C
ATOM ATOM ATOM	7372 7373 7374	CE2 CE3	TRP TRP TRP	201 201 201 201	94. 135 93. 610 94. 634 93. 449	58. 198 58. 150 57. 020 60. 253	29. 801 31. 110 29. 228 30. 370	1.00 10.35 1.00 11.08 1.00 8.52 1.00 12.43	В В В В	C C C
ATOM ATOM ATOM	7375 7376 7377	NE1 CZ2	TRP TRP TRP	201 201 201 201	93. 198 93. 567 94. 596	59. 416 56. 967 55. 847	31. 434 31. 858 29. 968	1.00 12.43 1.00 12.21 1.00 11.85 1.00 8.91	B B B	N C C
ATOM ATOM ATOM	7378 7379 7380	CH2 C O		201 201 201	94. 065 96. 719 97. 197	55. 829 59. 040 58. 766	31. 271 28. 264 29. 366	1.00 10.19 1.00 14.63 1.00 14.84	B B B	C C O
ATOM ATOM ATOM	7381 7382 7383	N CA CB	VAL VAL VAL	202 202 202	96. 795 97. 413 97. 028	58. 213 56. 902 55. 966	27. 224 27. 369 26. 190	1. 00 14. 84 1. 00 13. 74 1. 00 11. 30	B B B	N C C
ATOM ATOM ATOM	7384 7385 7386	CG1 CG2 C	VAL	202 202 202	97. 960 97. 028 98. 929	56. 155 54. 541 56. 920	25. 010 26. 667 27. 556	1.00 8.57 1.00 8.82 1.00 15.45	В В В	C C C
ATOM ATOM ATOM	7387 7388 7389	O N CA	VAL TYR TYR	202 203 203	99. 471 99. 616 101. 060	56. 095 57. 857 57. 941	28. 292 26. 906 27. 053	1.00 16.05 1.00 15.45 1.00 13.39	B B B	O N C
ATOM ATOM ATOM	7390 7391 7392	CB CG CD1		203 203 203	101. 656 102. 248 101. 461	58. 918 58. 238 57. 938	26. 035 24. 823 23. 709	1.00 12.37 1.00 8.90 1.00 8.82	B B B	C C C
ATOM ATOM ATOM ATOM	7393 7394 7395 7396	CE1 CD2 CE2 CZ	TYR TYR	203 203 203	101. 989 103. 587 104. 128	57. 260 57. 844 57. 167	22. 619 24. 812 23. 727	1.00 7.48 1.00 5.53 1.00 6.51	B B B	C C C
ATOM ATOM ATOM	7397 7398	OH C	TYR TYR TYR	203 203 203	103. 325 103. 849 101. 438	56. 874 56. 175 58. 371	22. 634 21. 572 28. 471	1.00 8.49 1.00 8.01 1.00 13.68	B B B	C O C

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	(Continued)									
					ГІ	G. 4	- 1 5 2	2		
ATOM	7399		TYR		102. 369				В	0
ATOM	7400		GLU		100. 700				В	N
ATOM	7401	CA			100.963				В	C
ATOM	7402				99. 975				В	C
ATOM	7403				100.174				В	C
ATOM ATOM	7404 7405	CD OE			98. 950				В	C
ATOM	7405		1 GLU 2 GLU		98. 197				В	0
ATOM	7407	C	Z GLU GLU		98. 753				В	0
ATOM	7408	Ö	GLU	204 204	100. 831 101. 681				В	C
ATOM	7409	N	GLU	204	99. 745				В	0
ATOM	7410	CA	GLU	205	99. 442				В	N C
ATOM	7411	CB	GLU	205	97. 925	56. 727	32. 313		B B	C
ATOM	7412	CG	GLU	205	97. 453	55. 436			В	C
ATOM	7413	CD	GLU	205	97.414			1.00 26.68	В	C C C
ATOM	7414		GLU	205	97. 038	54. 466			В	Ö
ATOM	7415		2 GLU	205	97.744			1.00 26.11	В	Ö
ATOM	7416	C	GLU	205	100.132		32. 131	1.00 19.27	В	č
ATOM	7417	0	GLU	205	100.525	54.957	33. 107	1.00 19.31	B	ŏ
ATOM	7418	N	GLU	206	100. 291	55.124		1.00 18.93	B	Ň
ATOM	7419	CA	GLU	206	100.876	53.808	30.660	1.00 18.63	B	Ċ
ATOM	7420	CB	GLU	206	99. 989	53.016	29. 705	1.00 18.05	В	Č
ATOM	7421	CG	GLU	206	98. 535	52.921	30. 139	1.00 20.39	В	C
ATOM	7422	CD	GLU	206	98. 359	52. 143	31.422	1.00 20.74	В	C
ATOM	7423		GLU	206	97. 205	51.905	31.821	1.00 21.45	В	0
ATOM	7424		GLU	206	99.375	51.768	32. 037	1.00 22.90	В	0
ATOM ATOM	7425 7426	C 0	GLU	206	102. 293	53. 766	30.136	1.00 19.32	В	C
ATOM	7427	N	GLU VAL	206	102.976	52. 761	30. 292	1.00 20.01	В	0
ATOM	7428	CA	VAL	207 207	102. 744	54. 844	29.509	1.00 20.90	В	N
ATOM	7429	CB	VAL	207	104. 092	54.855	28. 968	1.00 20.95	В	C C C
ATOM	7430		VAL	207	104. 101 105. 486	55. 347 55. 151	27. 509 26. 918	1.00 21.52	В	C
ATOM	7431		VAL	207	103. 460	54. 592	26.684	1.00 22.17 1.00 19.10	В	Ü
ATOM	7432	C	VAL	207	105.040	55. 691	29. 775	1.00 19.10	В	C
ATOM	7433	0	VAL	207	106.052	55. 160	30. 301	1.00 25.32	B B	C 0
ATOM	7434	N	PHE	208	104. 833	56. 989	29. 888	1.00 21.55	В	N N
ATOM	7435	CA	PHE	208	105. 743	57.870	30.611	1.00 21.33	B.	C
ATOM	7436	CB	PHE	208	105.877	59. 201	29.863	1.00 21.28	В	Č
ATOM	7437	CG	PHE	208	106.571	59.083	28. 536	1.00 21.92	В	č
ATOM	7438		PHE	208	107.890	58.649	28.464	1.00 20.63	B	Č
ATOM	7439		PHE	208	105.893	59.373	27. 353	1.00 22.58	B	Č
ATOM	7440		PHE	208	108. 525	58.499	27. 230	1.00 22.52	B	Č
ATOM	7441		PHE	208	106. 521	59. 225	26.109	1.00 22.24	В	C
ATOM	7442	CZ	PHE	208	107. 837	58. 787	26.048	1.00 22.76	В	C
ATOM	7443	C	PHE	208	105.444	58. 168	32. 082	1.00 21.89	В	C
ATOM ATOM	7444 7445	O N	PHE	208	106. 298	58. 727	32. 768	1.00 23.07	В	0
ATOM	7446	CA	SER SER	209 209	104. 261	57.811	32. 577	1.00 20.48	В	N
ATOM	7447	CB	SER	209 209	103.922	58.094	33. 976	1.00 19.86	В	C
III OIII	1771	UD	JUIN	409	104.689	57.165	34. 905	1.00 18.09	В	C

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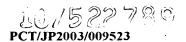
										(Continued)
					FIC	G. 4-	153			(Continued)
ATOM	7448	0G	SER	209	104. 383		34.601	1.00 21.42	В	0
ATOM	7449	C	SER		104. 285		34. 286	1.00 20.55	В	C
ATOM	7450	0	SER	209	104. 780		35.367	1.00 19.53	В	0
ATOM	7451	N	ALA		104.031	60. 394	33. 302	1.00 20.69	В	N
ATOM	7452	CA	ALA	210	104.319	61.809	33. 393	1.00 20.47	В	C
ATOM	7453	CB	ALA	210	105. 809	62.044	33. 228	1.00 20.63	В	C
ATOM	7454	C	ALA	210	103. 545	62. 492	32. 275	1.00 20.53	В	C
ATOM ATOM	7455	O N	ALA TYR	210	103.042	61.835	31.367	1.00 19.81	В	0 N
ATOM	7456 7457	CA	TYR	211 211	103. 461 102. 733	63. 813 64. 634	32.354	1.00 21.78 1.00 20.95	В	N C
ATOM	7458	CB	TYR	211	102. 733	65. 681	31.390	1.00 20.95	B B	C
ATOM	7459	CG	TYR	211	101. 944	66. 566	32. 175 31. 411	1.00 15.35	В	C C
ATOM	7460		TYR	211	100. 354	66.086	30. 324	1.00 13.38	В	Č
ATOM	7461		TYR	211	99. 310	66. 879	29. 694	1.00 14.13	В	Č
ATOM	7462		TYR	211	100. 738	67. 863	31.846	1.00 11.95	В	Č
ATOM	7463		TYR	211	99. 799	68. 657	31.231	1.00 12.21	В	Č
ATOM	7464	CZ	TYR	211	99. 087	68. 165	30. 156	1.00 12.21	В	Č
ATOM	7465	OH	TYR	211	98. 158	68. 977	29.550	1.00 12.73	В	Ö
ATOM	7466	C	TYR	211	103. 781	65. 283	30.508	1.00 22.11	В	Č
ATOM	7467	Ö	TYR	211	103. 512	65. 742	29.406	1.00 23.55	В	ő
ATOM	7468	Ň	SER	212	105.000	65. 294	31.017	1.00 23.17	B	Ň
ATOM	7469	CA	SER	212	106.112	65.877	30.310	1.00 22.03	B	Ċ
ATOM	7470	CB	SER	212	107. 286	66.055	31.265	1.00 22.38	B	č
ATOM	7471	0G	SER	212	108.441	66.477	30.567	1.00 24.83	B	Ö
ATOM	7472	C	SER	212	106.547	65.017	29.141	1.00 22.20	B	Č
ATOM	7473	0	SER	212	106.651	63.802	29. 256	1.00 22.93	В	0
ATOM	7474	N	ALA	213	106. 791	65.668	28.013	1.00 22.14	В	N
ATOM	7475	CA	ALA	213	107. 267	65.011	26.812	1.00 19.72	В	C
ATOM	7476	CB	ALA	213	106. 157	64: 882	25.803	1.00 19.85	В	C
ATOM	7477	C	ALA	213	108.360	65.942	26. 301	1.00 21.17	В	C
ATOM	7478	0	ALA	213	108. 443	66. 254	25. 109	1.00 20.14	В	0
ATOM	7479	N	LEU	214	109. 175	66. 409	27. 243	1.00 21.21	В	N
ATOM	7480	CA	LEU	214	110. 298	67.295	26. 961	1.00 22.06	В	C
ATOM	7481		LEU	214	110.049	68. 697	27. 534	1.00 21.02	В	С
ATOM	7482		LEU	214	108. 958	69. 546	26. 878	1.00 20.19	В	C
ATOM	7483		LEU	214	108. 840	70.872	27.603	1.00 21.72	В	С
ATOM	7484		LEU	214	109. 292	69. 779	25. 426	1.00 22.01	В	C
ATOM	7485	C	LEU	214	111. 528	66. 688	27. 615	1.00 22.30	В	C
ATOM	7486		LEU	214	111.442	66. 131	28. 703	1.00 25.61	В	0
ATOM	7487	N	TRP	215	112.674	66. 795	26. 957	1.00 21.71	В	· N
ATOM	7488		TRP	215	113. 904	66. 237	27. 497	1.00 19.34	В	C
ATOM	7489		TRP	215	114.112	64. 833	26. 942	1.00 18.71	В	C
ATOM ATOM	7490 7491	CG CD2	TRP	215	113.018	63. 863	27. 294	1.00 18.43	В	C
ATOM	7491	CE2		215 215	111.910 111.157	63. 481 62. 536	26. 468 27. 194	1.00 16.56	В	C
ATOM	7492	CE2		215	111. 157	63. 845	25. 186	1.00 14.85 1.00 17.01	B B	C
ATOM	7494	CD1		215	111. 482	63. 155	28. 456	1.00 17.01	В	C C
ATOM	7495	NE1		215	111.781	62. 356	28. 400	1.00 13.04	В	N
ATOM	7496	CZ2		215	109.996	61.949	26. 682	1.00 14.75	В	C

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					FI	G. 4	- 1 5 4	4		(Continued)
ATOM ATOM	7497 7498		.3 TRP 12 TRP		110. 326 109. 599	63. 257	7 24.67	5 1.00 15.48	B B	C C
ATOM	7499		TRP		115.110				В	C
ATOM	7500		TRP		115.625		4 26.028		B	Ö
ATOM	7501		TRP		115.566	67. 897			В	N
ATOM	7502				116.727				В	С
ATOM ATOM	7503 7504				116.958				В	C
ATOM	7504		2 TRP	216 216	116.020				В	C
ATOM	7506		2 TRP	216	116.097 115.036				В	C
ATOM	7507		3 TRP	216	116.959				В	C
ATOM	7508		1 TRP	216	114.945				B B	C C
ATOM	7509		1 TRP	216	114.351	72. 204			В	N N
ATOM	7510	CZ	2 TRP	216	114.815	74. 209			В	Č
ATOM	7511		3 TRP	216	116.738				B	č
ATOM	7512		2 TRP	216	115.673	74.674			B	Č
ATOM	7513	C	TRP	216	117. 982	67.896			В	Č
ATOM	7514	0	TRP	216	118.083	66.816	28. 334		В	0
ATOM ATOM	7515	N	SER	217	118.941	68. 398	26. 975		В	N
ATOM	7516 7517	CA CB	SER SER	217	120. 222	67. 723	26. 819		В	C
ATOM	7518	OG	SER	217 217	120. 954	68. 223	25. 575		В	C
ATOM	7519	C	SER	217	121. 212 120. 976	69. 612 68. 145	25. 676		В	0
ATOM	7520	ŏ	SER	217	120. 694	69. 198	28. 080 28. 656	1.00 27.00 1.00 26.90	В	C
ATOM	7521	Ň	PRO	218	121.942	67. 336	28. 523	1.00 26.67	B B	O N
ATOM	7522	CD	PRO	218	122.469	66. 127	27. 867	1.00 26.71	В	C
ATOM	7523	CA	PRO	218	122.712	67.646	29. 727	1.00 26.69	В	C
ATOM	7524	CB	PRO	218	123.961	66.801	29.547	1.00 27.32	B	C C
ATOM	7525	CG	PRO	218	123.385	65.555	28.937	1.00 26.93	B	Č
ATOM	7526	C	PRO	218	123.005	69.116	30.010	1.00 27.70	В	Ċ
ATOM	7527	0	PRO	218	122.487	69.661	30. 985	1.00 30.37	В	0
ATOM ATOM	7528 7529	N CA	ASN	219	123. 818	69. 770	29. 184	1.00 27.72	В	N
ATOM	7530	CB	ASN ASN	219 219	124. 129	71.176	29. 435	1.00 26.82	В	C
ATOM	7531	CG	ASN	219	125.485 125.447	71.562 71.640	28. 816	1.00 26.61	В	C
ATOM	7532		ASN	219	124. 376	71.725	27. 308 26. 706	1.00 27.23 1.00 25.21	В	C
ATOM	7533		ASN	219	126.626	71.632	26. 690	1.00 25.21	B B	0 N
ATOM	7534	C	ASN	219	123. 029	72. 133	28. 958	1.00 27.38	В	N C
ATOM	7535	0	ASN	219	123.212	73. 351	28. 943	1.00 29.12	В	0
ATOM	7536	N	GLY	220	121.888	71.575	28. 565	1.00 26.98	B	N
ATOM	7537	CA	GLY	220	120.765	72. 391	28.137	1.00 26.30	B	Č
ATOM	7538	C	GLY	220	120.823	73. 030	26.765	1.00 26.91	В	Č
ATOM ATOM	7539 7540	0 N	GLY	220	120.097	73. 986	26. 500	1.00 27.55	В	0
ATOM ATOM	7540 7541	N CA	THR THR	221	121.669	72. 512	25. 884	1.00 27.00	В	N
ATOM	7542	CB	THR	221 221	121.775	73.073	24. 547	1.00 26.99	В	C
ATOM	7543		THR	221	123. 052 124. 213	72. 584 73. 084	23. 808	1.00 27.74	В	C
ATOM	7544	CG2		221	123.068	73.084	24. 481 22. 367	1.00 29.49 1.00 26.25	B B	0
ATOM	7545	C	THR	221	120.559	72. 685	23. 730	1.00 26.23	В	C C
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ATOM 7552 CD2 PHE 222 123.615 69.425 21.031 1.00 25.81 B C ATOM 7553 CE1 PHE 222 123.115 69.425 21.031 1.00 28.19 B C ATOM 7555 CZ PHE 222 121.815 70.158 19.132 1.00 28.19 B C ATOM 7555 CZ PHE 222 121.815 70.158 19.132 1.00 28.46 B C ATOM 7555 CZ PHE 222 123.046 69.814 19.693 1.00 28.46 B C ATOM 7556 C PHE 222 117.949 70.618 23.723 1.00 24.55 B C ATOM 7557 O PHE 222 118.066 70.282 24.901 1.00 24.38 B O ATOM 7558 N LEU 223 118.067 70.282 24.901 1.00 24.38 B O ATOM 7559 CA LEU 223 115.540 70.442 23.789 1.00 24.19 B N ATOM 7559 CA LEU 223 114.618 71.667 23.878 1.00 21.81 B C ATOM 7560 CB LEU 223 114.618 71.667 23.878 1.00 21.81 B C ATOM 7561 CG LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7562 CD1 LEU 223 113.469 70.684 25.860 1.00 21.10 B C ATOM 7564 C LEU 223 114.885 69.380 22.934 1.00 23.23 B C ATOM 7566 N ALA 224 114.834 68.162 23.459 1.00 23.23 B C ATOM 7567 CA ALA 224 114.834 68.162 23.459 1.00 23.23 B C ATOM 7568 CB ALA 224 114.201 67.052 22.753 1.00 23.08 B C ATOM 7567 CA ALA 224 114.201 67.052 22.753 1.00 23.08 B C ATOM 7567 CA ALA 224 114.201 67.052 22.753 1.00 23.38 B C ATOM 7567 CA ALA 224 112.498 67.111 24.444 1.00 23.37 B N ATOM 7571 N TYR 225 110.423 66.635 22.753 1.00 23.38 B C ATOM 7574 CB TYR 225 109.733 67.997 22.701 1.00 18.23 B C ATOM 7576 CD TYR 225 109.648 68.624 21.322 1.00 23.10 B N ATOM 7577 CD TYR 225 109.648 68.624 21.322 1.00 18.56 B C ATOM 7578 CE TYR 225 109.638 68.804 20.849 1.00 18.59 B C ATOM 7580 CB TYR 225 109.686 68.897 01.924 1.00 18.56 B C ATOM 7576 CD TYR 225 109.686 68.897 01.924 1.00 18.56 B C ATOM 7580 CB TYR 225 109.686 69.443 20.849 1.00 18.56 B C ATOM 7580 CB TYR 225 109.686 69.491 20.982 1.00 13.07 B C ATOM 7580 CB TYR 225 109.686 69.491 20.982 1.00 13.07 B C ATOM 7580 CB TYR 225 109.686 69.491 20.982 1.00 13.07 B C ATOM 7580 CB TYR 225 109.686 69.491 20.982 1.00 13.07 B C ATOM 7580 CB TYR 225 109.696 65.712 21.737 1.00 21.55 B C ATOM 7580 CB TYR 225 109.696 65.712 21.737 1.00 11.00 18.66 B C ATOM 7580 CB CR CR 277 225 109.696 65.709 18.139 1.00 12.22 B O ATOM 75	ATOM	7551	CD1								
ATOM 7553 CEI PHE 222 123.115 69.425 21.031 1.00 26.12 B C ATOM 7554 CE2 PHE 222 121.815 70.158 19.132 1.00 28.19 B C ATOM 7555 CZ PHE 222 121.815 70.158 19.132 1.00 28.46 B C ATOM 7556 C PHE 222 117.949 70.618 23.723 1.00 24.55 B C ATOM 7557 O PHE 222 118.066 70.282 24.901 1.00 24.35 B O ATOM 7558 N LEU 223 116.780 70.746 23.119 1.00 24.19 B N ATOM 7558 N LEU 223 116.780 70.746 23.119 1.00 24.19 B N ATOM 7550 CB LEU 223 114.618 71.667 23.878 1.00 21.81 B C ATOM 7560 CB LEU 223 114.618 71.667 23.878 1.00 21.81 B C ATOM 7561 CG LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7563 CD LEU 223 113.469 70.684 25.860 1.00 21.10 B C ATOM 7565 CD LEU 223 114.485 69.380 22.934 1.00 23.23 B C ATOM 7566 CD LEU 223 114.485 69.380 22.934 1.00 23.23 B C ATOM 7566 N ALA 224 114.834 68.162 23.459 1.00 23.47 B N ATOM 7566 N ALA 224 114.834 68.162 23.459 1.00 23.47 B N ATOM 7568 CB ALA 224 114.201 67.062 22.753 1.00 23.47 B N ATOM 7569 C ALA 224 114.298 67.11 24.444 1.00 23.37 B O ATOM 7570 O ALA 224 114.298 67.11 24.444 1.00 23.37 B O ATOM 7572 CA TYR 225 109.733 66.675 22.238 1.00 23.13 B C ATOM 7573 CB TYR 225 109.733 66.955 22.238 1.00 23.10 B N ATOM 7577 CD TYR 225 110.423 66.635 22.703 1.00 23.13 B C ATOM 7573 CB TYR 225 109.733 66.955 22.238 1.00 23.10 B N ATOM 7575 CD TYR 225 109.733 67.997 22.701 1.00 18.59 B C ATOM 7575 CD TYR 225 109.733 67.997 22.701 1.00 18.59 B C ATOM 7575 CD TYR 225 109.648 68.624 21.332 1.00 18.59 B C ATOM 7575 CD TYR 225 109.648 68.624 21.332 1.00 18.59 B C ATOM 7580 CB TYR 225 109.648 68.624 21.332 1.00 18.59 B C ATOM 7580 CB TYR 225 109.648 68.624 21.332 1.00 18.59 B C ATOM 7580 CB TYR 225 109.648 68.624 21.332 1.00 18.59 B C ATOM 7580 CB TYR 225 109.648 68.624 21.332 1.00 18.59 B C ATOM 7580 CB TYR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CB TYR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CB TYR 225 109.66.658 64.921 20.902 1.00 19.99 B C ATOM 7580 CB CALA 226 106.507 65.982 1.7573 1.00 21.358 B C ATOM 7580 CB CALA 226 106.507 65.982 1.7573 1.00 19.99 B C ATOM 7580 CB CALA	ATOM	7552	CD2	PHE							C
ATOM 7555 CZ PHE 222 123.046 69.814 19.693 1.00 28.46 B C ATOM 7555 CZ PHE 222 123.046 69.814 19.693 1.00 24.55 B C ATOM 7556 C PHE 222 117.949 70.618 23.723 1.00 24.58 B C ATOM 7557 O PHE 222 118.066 70.282 24.901 1.00 24.58 B C ATOM 7558 N LEU 223 116.780 70.746 23.119 1.00 24.19 B N ATOM 7556 CA LEU 223 115.540 70.442 23.789 1.00 24.19 B N ATOM 7556 CB LEU 223 114.618 71.667 23.878 1.00 24.19 B N ATOM 7560 CB LEU 223 114.618 71.667 23.878 1.00 24.19 B C ATOM 7561 CG LEU 223 114.618 71.667 23.878 1.00 20.49 B C ATOM 7562 CD1 LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7563 CD2 LEU 223 114.885 69.380 22.934 1.00 21.10 B C ATOM 7565 O LEU 223 114.885 69.380 22.934 1.00 23.23 B C ATOM 7566 C LEU 223 114.885 69.380 22.934 1.00 23.23 B C ATOM 7565 O LEU 223 114.462 69.650 21.808 1.00 22.662 B O ATOM 7566 N ALA 224 114.834 68.162 23.459 1.00 23.47 B N ATOM 7567 CA ALA 224 114.935 65.776 23.038 1.00 23.38 B C ATOM 7568 CB ALA 224 114.935 65.766 23.038 1.00 23.38 B C ATOM 7570 O ALA 224 112.498 66.968 23.248 1.00 23.38 B C ATOM 7571 N TYR 225 110.423 66.755 22.328 1.00 23.10 B N ATOM 7573 CB TYR 225 110.680 69.432 20.348 1.00 23.37 B O ATOM 7573 CB TYR 225 110.680 69.432 20.348 1.00 23.37 B C ATOM 7576 CEI TYR 225 110.680 69.432 20.349 1.00 18.23 B C ATOM 7578 CEI TYR 225 110.680 69.432 20.599 1.00 18.56 B C ATOM 7578 CEI TYR 225 110.680 69.432 20.607 1.00 23.88 B C ATOM 7578 CEI TYR 225 110.680 69.432 20.607 1.00 18.03 B C ATOM 7578 CEI TYR 225 110.680 69.432 20.607 1.00 18.03 B C ATOM 7578 CEI TYR 225 110.680 69.432 20.607 1.00 18.03 B C ATOM 7580 OH TYR 225 110.680 69.432 20.607 1.00 18.73 B C ATOM 7580 C ALA 226 106.552 64.921 20.921 31.00 19.73 B C ATOM 7580 C ALA 226 106.507 65.512 20.1381 1.00 19.68 B C ATOM 7580 C ALA 226 106.607 65.908 21.737 1.00 19.19 B C ATOM 7580 C ALA 226 106.652 64.921 20.922 1.00 19.73 B C ATOM 7580 C ALA 226 106.652 64.921 20.922 1.00 19.73 B C ATOM 7580 C ALA 226 106.652 64.921 20.922 1.00 19.73 B C ATOM 7580 C ALA 226 106.652 64.921 20.922 1.00 19.73 B C ATOM 7580 C ALA 226 1		7553				123.115	69.425	21.031	1.00 26.12	В	
ATOM 7556 C PHE 222 117.949 70.618 23.723 1.00 24.55 B C ATOM 7557 O PHE 222 118.066 70.282 24.901 1.00 24.19 B N ATOM 7558 N LEU 223 116.780 70.746 23.119 1.00 24.19 B N ATOM 7558 C LEU 223 116.780 70.746 23.119 1.00 24.19 B N ATOM 7550 CA LEU 223 116.780 70.746 23.789 1.00 22.85 B C ATOM 7561 CG LEU 223 114.618 71.667 23.878 1.00 21.81 B C ATOM 7561 CG LEU 223 114.618 71.340 24.503 1.00 20.49 B C ATOM 7563 CD2 LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7564 C LEU 223 113.248 71.340 24.503 1.00 21.10 B C ATOM 7564 C LEU 223 114.885 69.380 22.934 1.00 23.23 B C ATOM 7565 O LEU 223 114.885 69.380 22.934 1.00 23.23 B C ATOM 7566 N ALA 224 114.834 68.162 23.459 1.00 23.47 B N ATOM 7567 CA ALA 224 114.834 68.162 23.459 1.00 23.47 B N ATOM 7567 CA ALA 224 114.935 65.776 23.038 1.00 23.38 B C ATOM 7569 C ALA 224 114.935 65.776 23.038 1.00 23.38 B C ATOM 7570 O ALA 224 112.761 66.968 23.248 1.00 23.37 B C ATOM 7570 O ALA 224 112.498 67.111 24.444 1.00 23.37 B C ATOM 7570 O ALA 224 112.761 66.968 23.248 1.00 23.37 B C ATOM 7573 CB TYR 225 110.829 66.635 22.238 1.00 23.37 B C ATOM 7573 CB TYR 225 110.829 66.635 22.238 1.00 23.10 B N ATOM 7573 CB TYR 225 110.9733 67.997 22.701 1.00 18.23 B C ATOM 7576 CD TYR 225 109.648 68.624 21.332 1.00 18.566 B C ATOM 7578 CEI TYR 225 109.648 68.624 21.332 1.00 18.566 B C ATOM 7578 CEI TYR 225 109.648 68.624 21.332 1.00 18.566 B C ATOM 7578 CEI TYR 225 109.648 68.624 21.332 1.00 18.566 B C ATOM 7578 CEI TYR 225 109.648 68.943 20.849 1.00 18.23 B C ATOM 7578 CEI TYR 225 109.648 68.943 20.849 1.00 18.566 B C ATOM 7581 CEI TYR 225 109.648 68.524 21.332 1.00 18.566 B C ATOM 7581 CEI TYR 225 109.648 68.943 20.849 1.00 18.566 B C ATOM 7581 CEI TYR 225 109.648 68.524 21.332 1.00 18.566 B C ATOM 7582 CB TYR 225 109.648 68.524 21.332 1.00 18.566 B C ATOM 7585 CB TYR 225 109.650 69.777 18.796 1.00 19.73 B C C ATOM 7585 CB TYR 225 109.650 69.777 18.796 1.00 19.66 B C ATOM 7588 CB ALA 226 106.507 65.508 21.1381 1.00 19.19 B C ATOM 7588 CB ALA 226 106.507 65.988 21.576 1.00 19.73 B C ATOM 7							70.158	19.132	1.00 28.19	В	
ATOM 7557 0 PHE 222 118.066 70.282 24.901 1.00 24.38 B 0 ATOM 7558 N LEU 223 116.780 70.746 23.119 1.00 24.19 B N ATOM 7559 CA LEU 223 115.540 70.442 23.789 1.00 22.85 B C ATOM 7560 CB LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7561 CG LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7562 CD1 LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7563 CD2 LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7565 C LEU 223 113.469 70.684 25.860 1.00 21.10 B C ATOM 7565 C LEU 223 114.885 69.380 22.934 1.00 23.23 B C ATOM 7565 O LEU 223 114.885 69.380 22.934 1.00 23.23 B C ATOM 7566 N ALA 224 114.885 69.380 22.934 1.00 23.23 B C ATOM 7566 N ALA 224 114.834 68.162 23.459 1.00 23.47 B N ATOM 7566 N ALA 224 114.201 67.062 22.753 1.00 23.08 B C ATOM 7566 CA ALA 224 114.201 67.062 22.753 1.00 23.08 B C ATOM 7569 C ALA 224 114.201 66.968 23.248 1.00 23.38 B C ATOM 7567 CA ALA 224 112.761 66.968 23.248 1.00 23.37 B C ATOM 7570 O ALA 224 112.498 67.111 24.444 1.00 23.37 B O ATOM 7571 N TYR 225 111.825 66.755 22.238 1.00 23.37 B O ATOM 7572 CA TYR 225 110.423 66.635 22.703 1.00 21.31 B C ATOM 7573 CB TYR 225 110.423 66.635 22.703 1.00 21.31 B C ATOM 7576 CE1 TYR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7576 CE1 TYR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7578 CE2 TYR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7578 CE2 TYR 225 109.502 69.777 18.796 1.00 16.52 B C ATOM 7578 CE2 TYR 225 109.502 69.777 18.796 1.00 12.68 B C ATOM 7580 CH TYR 225 109.502 69.777 18.796 1.00 12.68 B C ATOM 7581 C TYR 225 109.502 69.777 18.796 1.00 12.68 B C ATOM 7581 C TYR 225 109.502 69.777 18.796 1.00 12.68 B C ATOM 7587 C ALA 226 107.811 64.235 21.381 1.00 19.66 B C ATOM 7587 C ALA 226 107.811 64.235 21.381 1.00 19.66 B C ATOM 7587 C ALA 226 107.811 64.235 21.381 1.00 19.66 B C ATOM 7587 C ALA 226 107.811 64.235 21.381 1.00 19.66 B C ATOM 7587 C ALA 226 107.811 64.235 21.381 1.00 19.66 B C ATOM 7587 C ALA 226 107.811 64.235 21.381 1.00 19.66 B C ATOM 7587 C ALA 226 107.811 64.235 21.381 1.00 19.19 B C ATOM 7580 C B CLN 227 104.859							69.814	19.693	1.00 28.46	В	
ATOM 7558 N LEU 223 116.780 70.746 23.119 1.00 24.19 B N ATOM 7550 CA LEU 223 115.540 70.442 23.789 1.00 22.85 B C ATOM 7560 CB LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7561 CG LEU 223 113.248 71.340 24.503 1.00 20.49 B C ATOM 7562 CD1 LEU 223 113.469 70.684 25.860 1.00 21.10 B C ATOM 7563 CD2 LEU 223 113.469 70.684 25.860 1.00 21.10 B C ATOM 7563 CD2 LEU 223 114.885 69.380 22.934 1.00 23.23 B C ATOM 7566 N ALA 224 114.854 68.162 23.459 1.00 23.23 B C ATOM 7565 CD LEU 223 114.885 69.380 22.934 1.00 23.23 B C ATOM 7566 N ALA 224 114.834 68.162 23.459 1.00 23.27 B N ATOM 7567 CA ALA 224 114.901 67.062 22.753 1.00 23.47 B N ATOM 7568 CB ALA 224 114.935 65.776 23.038 1.00 24.27 B C ATOM 7560 C ALA 224 112.761 66.968 23.248 1.00 23.38 B C ATOM 7570 O ALA 224 112.498 67.111 24.444 1.00 23.337 B O ATOM 7571 N TTR 225 111.825 66.755 22.328 1.00 23.10 B N ATOM 7573 CB TTR 225 110.623 66.635 22.703 1.00 21.31 B C ATOM 7573 CB TTR 225 110.623 66.935 22.703 1.00 21.31 B C ATOM 7575 CD TTR 225 110.680 69.443 20.849 1.00 18.56 B C ATOM 7577 CD2 TTR 225 110.680 69.443 20.849 1.00 18.56 B C ATOM 7578 CE TTR 225 110.680 69.443 20.849 1.00 16.52 B C ATOM 7578 CE TTR 225 110.680 69.443 20.849 1.00 16.52 B C ATOM 7578 CE TTR 225 110.680 69.443 20.849 1.00 16.52 B C ATOM 7578 CE TTR 225 109.733 67.997 22.701 1.00 18.23 B C ATOM 7578 CE TTR 225 109.502 69.777 19.589 1.00 13.07 B C ATOM 7580 CH TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CH TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CH TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7578 CE TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CB TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CB TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CB TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CB TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CB TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CB TTR 225 109.648 68.624 21.332 1.00 18.56 B C ATOM 7580 CB ALA 226 106.528 64.921 2.910 1.00 16.52 B C ATOM 7580 CB ALA 2									1.00 24.55	В	C
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ATOM         7578         CE2         TYR         225         108.466         68.970         19.244         1.00         14.89         B         C           ATOM         7579         CZ         TYR         225         109.502         69.777         18.796         1.00         12.68         B         C           ATOM         7580         OH         TYR         225         109.705         65.712         21.737         1.00         14.06         B         O           ATOM         7581         C         TYR         225         109.705         65.712         21.737         1.00         21.55         B         C           ATOM         7582         O         TYR         225         110.143         65.523         20.607         1.00         22.86         B         O           ATOM         7583         N         ALA         226         108.596         65.141         22.195         1.00         20.96         B         N           ATOM         7584         CA         ALA         226         107.485         62.980         22.173         1.00         19.19         B         C           ATOM         7586         C	ATOM	7577	CD2	TYR	225						Č
ATOM       7579       CZ       TYR       225       109.502       69.777       18.796       1.00       12.68       B       C         ATOM       7580       OH       TYR       225       109.431       70.342       17.553       1.00       14.06       B       O         ATOM       7581       C       TYR       225       109.705       65.712       21.737       1.00       21.55       B       C         ATOM       7582       O       TYR       225       110.143       65.523       20.607       1.00       22.86       B       O         ATOM       7583       N       ALA       226       108.596       65.141       22.195       1.00       20.96       B       N         ATOM       7584       CA       ALA       226       107.485       62.980       22.173       1.00       19.66       B       C         ATOM       7586       C       ALA       226       106.528       64.921       20.962       1.00       19.73       B       C         ATOM       7587       O       ALA       226       106.107       65.908       21.576       1.00       19.73       B	ATOM	7578	CE2	TYR	225	108.466	68.970				
ATOM       7580       OH       TYR       225       109.431       70.342       17.553       1.00 14.06       B       O         ATOM       7581       C       TYR       225       109.705       65.712       21.737       1.00 21.55       B       C         ATOM       7582       O       TYR       225       110.143       65.523       20.607       1.00 22.86       B       O         ATOM       7583       N       ALA       226       108.596       65.141       22.195       1.00 20.96       B       N         ATOM       7584       CA       ALA       226       107.485       62.980       22.173       1.00 19.66       B       C         ATOM       7585       CB       ALA       226       107.485       62.980       22.173       1.00 19.66       B       C         ATOM       7586       C       ALA       226       106.528       64.921       20.962       1.00 19.73       B       C         ATOM       7587       O       ALA       226       106.107       65.908       21.576       1.00 21.22       B       O         ATOM       7589       CA       GLN       227 <td></td> <td></td> <td></td> <td>TYR</td> <td>225</td> <td>109. 502</td> <td>69.777</td> <td></td> <td></td> <td></td> <td></td>				TYR	225	109. 502	69.777				
ATOM 7581 C TYR 225 109.705 65.712 21.737 1.00 21.55 B C ATOM 7582 O TYR 225 110.143 65.523 20.607 1.00 22.86 B O ATOM 7583 N ALA 226 108.596 65.141 22.195 1.00 20.96 B N ATOM 7584 CA ALA 226 107.811 64.235 21.381 1.00 19.66 B C ATOM 7585 CB ALA 226 107.485 62.980 22.173 1.00 19.19 B C ATOM 7586 C ALA 226 106.528 64.921 20.962 1.00 19.73 B C ATOM 7587 O ALA 226 106.107 65.908 21.576 1.00 21.22 B O ATOM 7588 N GLN 227 105.912 64.410 19.909 1.00 16.70 B N ATOM 7589 CA GLN 227 104.659 64.968 19.457 1.00 17.01 B C ATOM 7590 CB GLN 227 104.823 65.709 18.139 1.00 17.47 B C ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7593 OE1 GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O						109. 431			1.00 14.06		
ATOM 7583 N ALA 226 108.596 65.141 22.195 1.00 20.96 B N ATOM 7584 CA ALA 226 107.811 64.235 21.381 1.00 19.66 B C ATOM 7585 CB ALA 226 107.485 62.980 22.173 1.00 19.19 B C ATOM 7586 C ALA 226 106.528 64.921 20.962 1.00 19.73 B C ATOM 7587 O ALA 226 106.107 65.908 21.576 1.00 21.22 B O ATOM 7588 N GLN 227 105.912 64.410 19.909 1.00 16.70 B N ATOM 7589 CA GLN 227 104.659 64.968 19.457 1.00 17.01 B C ATOM 7590 CB GLN 227 104.823 65.709 18.139 1.00 17.47 B C ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7593 OE1 GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O									1.00 21.55	В	
ATOM 7584 CA ALA 226 107.811 64.235 21.381 1.00 19.66 B C ATOM 7585 CB ALA 226 107.485 62.980 22.173 1.00 19.19 B C ATOM 7586 C ALA 226 106.528 64.921 20.962 1.00 19.73 B C ATOM 7587 O ALA 226 106.107 65.908 21.576 1.00 21.22 B O ATOM 7588 N GLN 227 105.912 64.410 19.909 1.00 16.70 B N ATOM 7589 CA GLN 227 104.659 64.968 19.457 1.00 17.01 B C ATOM 7590 CB GLN 227 104.823 65.709 18.139 1.00 17.47 B C ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7592 CD GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O										В	0
ATOM 7585 CB ALA 226 107.485 62.980 22.173 1.00 19.19 B C ATOM 7586 C ALA 226 106.528 64.921 20.962 1.00 19.73 B C ATOM 7587 O ALA 226 106.107 65.908 21.576 1.00 21.22 B O ATOM 7588 N GLN 227 105.912 64.410 19.909 1.00 16.70 B N ATOM 7589 CA GLN 227 104.659 64.968 19.457 1.00 17.01 B C ATOM 7590 CB GLN 227 104.823 65.709 18.139 1.00 17.47 B C ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7592 CD GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O											
ATOM 7586 C ALA 226 106.528 64.921 20.962 1.00 19.73 B C ATOM 7587 O ALA 226 106.107 65.908 21.576 1.00 21.22 B O ATOM 7588 N GLN 227 105.912 64.410 19.909 1.00 16.70 B N ATOM 7589 CA GLN 227 104.659 64.968 19.457 1.00 17.01 B C ATOM 7590 CB GLN 227 104.823 65.709 18.139 1.00 17.47 B C ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7592 CD GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O											C
ATOM 7587 O ALA 226 106.107 65.908 21.576 1.00 21.22 B O ATOM 7588 N GLN 227 105.912 64.410 19.909 1.00 16.70 B N ATOM 7589 CA GLN 227 104.659 64.968 19.457 1.00 17.01 B C ATOM 7590 CB GLN 227 104.823 65.709 18.139 1.00 17.47 B C ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7592 CD GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 0E1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O											
ATOM 7588 N GLN 227 105.912 64.410 19.909 1.00 16.70 B N ATOM 7589 CA GLN 227 104.659 64.968 19.457 1.00 17.01 B C ATOM 7590 CB GLN 227 104.823 65.709 18.139 1.00 17.47 B C ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7592 CD GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O											
ATOM 7589 CA GLN 227 104.659 64.968 19.457 1.00 17.01 B C ATOM 7590 CB GLN 227 104.823 65.709 18.139 1.00 17.47 B C ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7592 CD GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O											
ATOM 7590 CB GLN 227 104.823 65.709 18.139 1.00 17.47 B C ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7592 CD GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O											
ATOM 7591 CG GLN 227 103.512 66.300 17.670 1.00 18.65 B C ATOM 7592 CD GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O									1.00 17.01		C
ATOM 7592 CD GLN 227 103.554 66.788 16.249 1.00 18.45 B C ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B O											
ATOM 7593 OE1 GLN 227 103.724 66.007 15.320 1.00 18.91 B 0											
A TOUR MEAN AND OTHER AND											
	ATOM	7594			227	103. 724	68. 090	16.070	1.00 18.91	В	N



					F I (	2 4.	156			(Continued)
		_	<b>07.17</b>	225					_	_
ATOM	7595	C	GLN	227	103.651	63.841	19. 274	1.00 17.21	В	C
ATOM ATOM	7596 7597	O N	GLN PHE	$\begin{array}{c} 227 \\ 228 \end{array}$	103. 931 102. 483	62.850 63.990	18. 594 19. 888	1.00 17.76 1.00 16.03	В	0 N
ATOM	7598	CA	PHE	228 228	102. 463	62. 980	19. 768	1.00 10.03	B B	N C
ATOM	7599	CB	PHE	228	100. 985	62. 524	21. 158	1.00 14.78	В	Č
ATOM	7600	CG	PHE	228	102.111	62. 105	22.065	1.00 13.03	В	Č
ATOM	7601		PHE	228	102.659	63.003	22. 982	1.00 12.33	В	č
ATOM	7602		PHE	228	102.653	60.826	21.978	1.00 12.01	В	č
ATOM	7603		PHE	228	103. 732	62.636	23. 796	1.00 9.77	B	č
ATOM	7604		PHE	228	103. 725	60.450	22. 786	1.00 11.27	B	Č
ATOM	7605	CZ	PHE	228	104. 267	61.360	23.698	1.00 9.50	В	C
ATOM	7606	C	PHE	228	100. 263	63.523	18.955	1.00 18.96	В	C
ATOM	7607	0	PHE	228	99. 894	64.697	19.064	1.00 19.98	В	0
ATOM	7608	N	ASN	229	99.685	62.657	18. 133	1.00 20.11	В	N
ATOM	7609	CA	ASN	229	98. 548	63.002	17. 285	1.00 20.74	В	C
ATOM	7610	CB	ASN	229	98. 965	62.867	15.819	1.00 22.98	В	C
ATOM	7611	CG	ASN	229	97. 980	63. 488	14.867	1.00 27.56	В	C
ATOM	7612		ASN	229	96. 795	63. 610	15. 174	1.00 31.63	В	0
ATOM	7613		ASN	229	98. 467	63. 871	13. 692	1.00 30.76	В	N
ATOM ATOM	7614	C	ASN	229	97. 435	61.995	17.609	1.00 21.10	В	C
ATOM	7615 7616	0 N	ASN ASP	$\begin{array}{c} 229 \\ 230 \end{array}$	97. 550	60.816	17. 283	1.00 20.02	В	0
ATOM	7617	CA	ASP	230 230	96. 369 95. 277	62. 444 61. 534	18. 260 18. 608	1.00 22.16 1.00 24.31	В	N C
ATOM	7618	CB	ASP	230	94. 877	61.683	20. 079	1.00 24.31	B B	C C
ATOM	7619	CG	ASP	230	95. 999	61.332	21.027	1.00 25.25	В	C
ATOM	7620		ASP	230	95. 701	60. 914	22. 159	1.00 27.89	В	0
ATOM	7621		ASP	230	97. 180	61.485	20.656	1.00 27.78	В	0 .
ATOM	7622	C	ASP	230	94.056	61.776	17. 740	1.00 24.83	B	Č
ATOM	7623	0	ASP	230	92.927	61.496	18. 148	1.00 24.00	B	Ö
ATOM	7624	N	THR	231	94.297	62.284	16.536	1.00 25.37	В	N
ATOM	7625	CA	THR	231	93. 229	62.582	15. 593	1.00 26.24	В	С
ATOM	7626	CB	THR	231	93.802	62.868	14. 193	1.00 25.71	В	C
ATOM	7627	0G1	THR	231	94. 439	64. 151	14. 194	1.00 26.78	В	0
ATOM	7628		THR	231	92. 702	62.851	13. 150	1.00 23.72	В	C
ATOM	7629	C	THR	231	92. 148	61.510	15.467	1.00 27.04	В	C
ATOM	7630	0	THR	231	90. 964	61.815	15.604	1.00 29.05	В	0
ATOM ATOM	7631 7632	N	GLU GLU	232	92. 545	60. 265	15. 211	1.00 27.00	В	N
ATOM	7633	CA CB	GLU	$\begin{array}{c} 232 \\ 232 \end{array}$	91.574 92.017	59. 183	15.038	1.00 26.30	В	C
ATOM	7634	CG	GLU	$\frac{232}{232}$	92. 177	58. 286 59. 036	13. 877 12. 563	1.00 29.71	В	C
ATOM	7635	CD	GLU	$\frac{232}{232}$	92. 971	58. 253	11.519	1.00 36.71 1.00 39.94	В	C C
ATOM	7636		GLU	232	92. 434	57. 273	10. 943	1.00 33.34	В	0
ATOM	7637		GLU	232	94. 142	58. 623	11. 286	1.00 39.28	В	0
ATOM	7638	C	GLU	232	91. 320	58. 328	16. 282	1.00 23.78	В	Č
ATOM	7639	0	GLU	232	90. 683	57. 280	16. 208	1.00 23.18	B	ŏ
ATOM	7640	N	VAL	233	91.823	58. 763	17. 427	1.00 21.91	B	Ň
ATOM	7641	CA	VAL	233	91.608	58.010	18.652	1.00 20.18	В	C
ATOM	7642	CB	VAL	233	92.651	58. 375	19.727	1.00 20.26	В	С
ATOM	7643	CG1	VAL	233	92. 352	57. 627	21.016	1.00 18.23	В	С

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					(Continued)
				FIG. 4-157	(Continuou)
ATOM ATOM ATOM	7644 7645 7646	C VAL	233 233 233	94. 050 58. 032 19. 223 1. 00 18. 80 H 90. 218 58. 339 19. 175 1. 00 18. 04 H 89. 886 59. 507 19. 378 1. 00 19. 49	3 C
ATOM	7647	N PRO	234	89. 383 57. 315 19. 394 1. 00 16. 04 E	
ATOM	7648	CD PRO	234	89. 633 55. 876 19. 231 1. 00 14. 37 E	
ATOM ATOM	7649 7650	CA PRO CB PRO	$\begin{array}{c} 234 \\ 234 \end{array}$	88. 025 57. 544 19. 896 1. 00 15. 33 E 87. 461 56. 133 20. 030 1. 00 13. 91	
ATOM	7651	CG PRO	234	88. 247 55. 363 19. 013 1. 00 12. 89	S C
ATOM	7652	C PRO	234	88. 048 58. 275 21. 227 1. 00 14. 45 B	Č
ATOM	7653	O PRO	234	89. 043 58. 242 21. 950 1. 00 13. 13 B	
ATOM	7654	N LEU	235	86. 941 58. 927 21. 547 1. 00 14. 92 B	
ATOM ATOM	7655 7656	CA LEU CB LEU	$\frac{235}{235}$	86. 831 59. 676 22. 791 1. 00 13. 91 B 86. 131 61. 005 22. 536 1. 00 14. 93 B	
ATOM	7657	CG LEU	235	86. 131 61. 005 22. 536 1. 00 14. 93 B 86. 627 61. 937 21. 434 1. 00 16. 83 B	
ATOM	7658	CD1 LEU	235	85. 581 63. 030 21. 198 1. 00 17. 90 B	
ATOM	7659	CD2 LEU	235	87. 963 62. 534 21. 833 1. 00 14. 85 B	
ATOM	7660	C LEU	235	85. 998 58. 911 23. 803 1. 00 12. 70 B	C
ATOM ATOM	7661 7662	O LEU N ILE	$\begin{array}{c} 235 \\ 236 \end{array}$	84. 941 58. 385 23. 456 1. 00 13. 27 B	
ATOM	7663	CA ILE	236	86. 468 58. 801 25. 039 1. 00 10. 71 B 85. 618 58. 165 26. 037 1. 00 10. 96 B	
ATOM	7664	CB ILE	236	85. 618 58. 165 26. 037 1. 00 10. 96 B 86. 385 57. 630 27. 283 1. 00 9. 70 B	C C
ATOM	7665	CG2 ILE	236	87. 316 58. 692 27. 859 1. 00 10. 05 B	č
ATOM	7666	CG1 ILE	236	85. 386 57. 246 28. 371 1. 00 7. 51 B	С
ATOM	7667	CD1 ILE	236	84. 465 56. 100 28. 002 1. 00 9. 77 B	С
ATOM ATOM	7668 7669	C ILE O ILE	236 236	84. 774 59. 369 26. 456 1. 00 12. 91 B 85. 277 60. 500 26. 486 1. 00 13. 64 B	C
ATOM	7670	N GLU	$\begin{array}{c} 230 \\ 237 \end{array}$	85. 277 60. 500 26. 486 1. 00 13. 64 B 83. 497 59. 156 26. 741 1. 00 13. 69 B	0 N
ATOM	7671	CA GLU	237	82. 651 60. 267 27. 150 1. 00 14. 30 B	C
ATOM	7672	CB GLU	237	81.657 60.643 26.041 1.00 15.93 B	Č .
ATOM	7673	CG GLU	237	82. 307 60. 993 24. 708 1. 00 20. 06 B	C
ATOM ATOM	7674 7675	CD GLU OE1 GLU	$\begin{array}{c} 237 \\ 237 \end{array}$	81. 311 61. 541 23. 682 1. 00 24. 67 B	C
ATOM	7676	OE1 GLU	237	80. 133 61. 125 23. 713 1. 00 27. 11 B 81. 706 62. 377 22. 832 1. 00 25. 71 B	0
ATOM	7677	C GLU	237	81. 706 62. 377 22. 832 1. 00 25. 71 B 81. 902 59. 898 28. 407 1. 00 12. 26 B	0 C
ATOM	7678	0 GLU	237	81. 473 58. 759 28. 569 1. 00 12. 02 B	0
ATOM	7679	N TYR	238	81.768 60.860 29.310 1.00 12.67 B	Ň
ATOM ATOM	7680 7681	CA TYR	238	81. 044 60. 630 30. 550 1. 00 13. 08 B	C
ATOM	7682	CB TYR CG TYR	$\begin{array}{c} 238 \\ 238 \end{array}$	81. 903 59. 816 31. 534 1. 00 11. 88 B 83. 201 60. 458 31. 954 1. 00 15. 20 B	C
ATOM	7683	CD1 TYR	238	83. 201 60. 458 31. 954 1. 00 15. 20 B 83. 250 61. 347 33. 026 1. 00 15. 46 B	C
ATOM	7684	CE1 TYR	238	84. 458 61. 920 33. 430 1. 00 15. 78 B	C C
ATOM	7685	CD2 TYR	238	84. 390 60. 160 31. 291 1. 00 14. 07 B	č
ATOM	7686 7687	CE2 TYR	238	85. 592 60. 727 31. 683 1. 00 14. 24 B	C
ATOM ATOM	7687 7688	CZ TYR OH TYR	238 238	85. 623 61. 606 32. 751 1. 00 13. 94 B 86. 818 62. 173 33. 129 1. 00 12. 45 B	C
ATOM	7689	C TYR	238	86. 818 62. 173 33. 129 1. 00 12. 45 B 80. 583 61. 944 31. 163 1. 00 13. 53 B	0 C
ATOM	7690	0 TYR	238	81. 095 63. 008 30. 832 1. 00 14. 88 B	0
ATOM	7691	N SER	239	79. 592 61. 865 32. 042 1. 00 14. 64 B	N .
ATOM	7692	CA SER	239	79. 040 63. 047 32. 684 1. 00 13. 89 B	Ċ

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					1 1 \	J <u>1</u>	100			
ATOM	7693	CB	SER	239	77. 597	62. 783	33.085	1.00 13.29	В	С
ATOM	7694	OG	SER	239	76.800	62.496		1.00 19.37	B	Ö
ATOM	7695	C	SER	239	79. 775	63.547	33. 915	1.00 14.65	B	Č
ATOM	7696		SER	239	80. 361	62.775	34.673	1.00 15.52	B	0
ATOM	7697		PHE		79. 737	64.860	34. 100	1.00 14.89	В	N
ATOM	7698		PHE	240	80. 313	65. 493	35. 276	1.00 15.60	В	C
ATOM	7699	CB	PHE	240	81.543	66. 325	34. 932	1.00 17.00	В	C
ATOM	7700			240	82.422	66. 591	36. 112	1.00 14.96	В	C
ATOM	7701		1 PHE	240	83. 325	65. 629	36. 547	1.00 15.66	В	C
ATOM	7702		2 PHE	240	82. 312	67. 781	36. 822	1.00 14.41	В	C
ATOM	7703		PHE	240	84. 108	65. 846	37. 675	1.00 13.32	В	C
ATOM	7704		2 PHE	240	83. 087	68. 009	37. 950	1.00 12.45	В	C
ATOM	7705	CZ	PHE	240	83. 988	67. 039	38. 379	1.00 11.23	В	C
ATOM ATOM	7706	C	PHE	240	79. 184	66. 403	35. 758	1.00 15.75	В	C
ATOM	7707 7708	O N	PHE TYR	240	78. 671	67. 232	34. 995	1.00 14.05	В	0
ATOM	7709	CA	TYR	241	78. 785	66. 231	37.013	1.00 15.13	В	N
ATOM	7710	CB	TYR	241 241	77. 683 76. 912	67.002	37. 567	1.00 14.92	В	C
ATOM	7711	CG	TYR	241	76. 480	66. 125	38. 545	1.00 13.15	В	C
ATOM	7712	CD1		241	75. 393	64. 848 64. 832	37. 880 37. 007	1.00 12.77	В	C
ATOM	7713		TYR	241	75. 051	63. 678	36. 304	1.00 11.36 1.00 12.47	В	C
ATOM	7714		TYR	241	77. 215	63. 674	38. 041	1.00 12.47	В	C
ATOM	7715		TYR	241	76. 883	62. 512	37. 342	1.00 12.85	B B	C
ATOM -	7716	CZ	TYR	241	75. 801	62. 523	36. 472	1.00 12.33	В	C C
ATOM	7717	OH	TYR	241	75. 489	61. 395	35. 748	1.00 12.41	В	0
ATOM	7718	C	TYR	241	78. 100	68. 299	38. 208	1.00 15.24	В	C
ATOM	7719	0	TYR	241	77. 311	69. 239	38. 263	1.00 17.04	B	Ŏ
ATOM	7720	N	SER	242	79. 337	68.353	38.694	1.00 16.92	В	N
ATOM	7721	CA	SER	242	79. 864	69.570	39. 305	1.00 16.89	B	Ĉ
ATOM	7722	CB	SER	242	79.816	70. 707	38. 280	1.00 15.48	B	Č
ATOM	7723	0G	SER	242	80. 439	71.870	38. 782	1.00 18.12	В	0
ATOM	7724	C	SER	242	79. 078	69. 963	40.548	1.00 16.70	В	Č
ATOM	7725	0	SER	242	78. 438	69. 121	41.171	1.00 18.07	В	0
ATOM	7726	N	ASP	243	79. 136	71. 241	40. 912	1.00 17.57	В	N
ATOM	7727	CA	ASP	243	78. 405	71. 728	42.075	1.00 19.72	· B	C
ATOM	7728	CB	ASP	243	78. 846	73. 142	42. 442	1.00 23.43	В	C
ATOM	7729	CG	ASP	243	80. 275	73. 188	42. 950	1.00 28.70	В	C ·
ATOM	7730	0D1		243	80.646	72. 307	43. 765	1.00 29.62	В	0
ATOM ATOM	7731 7732		ASP	243	81.021	74. 106	42. 542	1.00 29.69	В	0
ATOM	7733	C 0	ASP	243	76. 917	71. 708	41.772	1.00 20.24	В	C
ATOM	7734	N	ASP GLU	243		71.777	40.609	1.00 20.38	В	0
ATOM	7735	CA	GLU	244 244		71.624	42.818	1.00 19.25	В	N
ATOM	7736	CB	GLU	244 244		71. 545 71. 376	42.630	1.00 19.29	В	C
ATOM	7737	CG	GLU	244 244		72. 609	43. 988 44. 533	1.00 19.46	В	C
ATOM	7738	CD	GLU	244		72. 334	44. 555 45. 847	1.00 23.65 1.00 26.30	В	C
ATOM	7739	0E1	GLU	244		71.856	46. 797	1.00 28.64	B B	C 0
ATOM	7740	0E2		244		72. 595		1.00 27.72	В	0
ATOM	7741	C	GLU	244		72. 720		1.00 18.30	В	C
							<del>-</del>		~	~

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			FIG. 4-159	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7743 N S 7744 CA S 7745 CB S 7746 OG S 7747 C S 7748 O S 7749 N L 7750 CA L	GLU 244 SER 245 SER 245 SER 245 SER 245 SER 245 SER 245 LEU 246 LEU 246	FIG. 4 - 159  72.958 72.647 41.355 1.00 19.81 B 74.861 73.785 41.702 1.00 15.52 B 74.381 74.958 40.986 1.00 11.95 B 75.157 76.196 41.425 1.00 11.90 B 76.473 76.162 40.915 1.00 17.74 B 74.459 74.821 39.470 1.00 9.32 B 73.883 75.625 38.752 1.00 10.56 B 75.167 73.819 38.968 1.00 8.50 B 75.252 73.647 37.518 1.00 8.56 B 76.481 72.812 37.145 1.00 8.57	O N C C C O C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7752 CG L 7753 CD1 L 7754 CD2 L 7755 C L 7756 O L 7757 N G 7758 CA G 7759 CB G 7760 CG G	EU 246 EU 246 EU 246 EU 246 EU 246 LN 247 LN 247 LN 247 LN 247	76. 770       72. 639       35. 644       1. 00 11. 81       B         77. 074       73. 984       35. 008       1. 00 5. 99       B         77. 949       71. 694       35. 449       1. 00 10. 70       B         73. 971       72. 944       37. 070       1. 00 10. 18       B         73. 772       71. 758       37. 349       1. 00 9. 30       B         73. 094       73. 685       36. 393       1. 00 12. 01       B         71. 815       73. 144       35. 938       1. 00 12. 00       B         70. 995       74. 230       35. 245       1. 00 12. 36       B         69. 584       73. 806       34. 884       1. 00 14. 88       B         68. 727       74. 978       34. 446       1. 00 16. 57       B	C C C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7763 NE2 GI 7764 C GI 7765 0 GI 7766 N TY 7767 CA TY 7768 CB TY 7769 CG TY 7770 CD1 TY 7771 CE1 TY	LN 247 LN 247 LN 247 YR 248 YR 248 YR 248 YR 248 YR 248 YR 248 YR 248	69. 152       75. 790       33. 627       1. 00 18. 02       B         67. 512       75. 069       34. 986       1. 00 13. 91       B         71. 974       71. 942       35. 022       1. 00 12. 63       B         71. 358       70. 903       35. 249       1. 00 13. 50       B         72. 793       72. 074       33. 987       1. 00 13. 12       B         73. 022       70. 949       33. 089       1. 00 13. 90       B         72. 954       71. 379       31. 628       1. 00 11. 81       B         71. 562       71. 727       31. 155       1. 00 11. 76       B         70. 967       72. 942       31. 498       1. 00 10. 54       B         69. 689       73. 265       31. 055       1. 00 11. 01       B	O N C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7772 CD2 TY 7773 CE2 TY 7774 CZ TY 7775 OH TY 7776 C TY 7777 O TY 7778 N PR 7779 CD PR 7780 CA PR 7781 CB PR	TR 248 TR 248 TR 248 TR 248 TR 248 TR 248 TR 249	70. 842       70. 843       30. 360       1. 00       9. 97       B         69. 562       71. 155       29. 911       1. 00       11. 67       B         68. 989       72. 366       30. 259       1. 00       11. 89       B         67. 722       72. 674       29. 801       1. 00       10. 14       B         74. 385       70. 340       33. 353       1. 00       14. 77       B         75. 384       71. 049       33. 419       1. 00       15. 30       B         74. 441       69. 014       33. 544       1. 00       15. 88       B         73. 350       68. 031       33. 636       1. 00       15. 23       B         75. 739       68. 381       33. 793       1. 00       16. 47       B         75. 360       66. 947       34. 161       1. 00       16. 57       B	C C C C C O C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7782 CG PR 7783 C PR 7784 O PR 7785 N LY 7786 CA LY 7787 CB LY 7788 CG LY 7789 CD LY 7790 CE LY	0 249 0 249 0 249 S 250 S 250 S 250 S 250 S 250	74. 086 66. 732 33. 417 1. 00 15. 37 B 76. 568 68. 468 32. 515 1. 00 16. 66 B 76. 016 68. 446 31. 419 1. 00 15. 91 B 77. 884 68. 586 32. 647 1. 00 16. 70 B 78. 721 68. 683 31. 463 1. 00 18. 05 B 79. 920 69. 591 31. 719 1. 00 17. 36 B 80. 912 69. 015 32. 681 1. 00 22. 33 B 82. 204 69. 826 32. 691 1. 00 28. 25 B 82. 952 69. 757 31. 355 1. 00 26. 52	C C O N C C C C

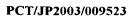
					FIC	G. 4-	160			(Continued)
ATOM	7791	NZ	LYS	250	84. 262	70.465	31.442	1.00 26.19	В	N
ATOM	7792	C	LYS		79. 215	67. 313	31.040	1.00 17.64	B	Č
ATOM	7793	Ŏ	LYS		79. 348	66. 409	31.867	1.00 20.20	B	ŏ
ATOM	7794	Ň	THR		79. 478	67. 160	29. 750	1.00 25.26	В	Ň
ATOM	7795	CA	THR		79. 978	65. 905	29. 234	1.00 14.91	В	Č
ATOM	7796	CB	THR		79. 317	65. 537	27. 896	1.00 14.31	В	Č
ATOM	7797		THR		77. 965	65. 144	28. 128	1.00 13.80	В	0
ATOM	7798		THR		80. 058	64. 389	27. 227	1.00 14.97	В	
ATOM	7799	C	THR		81.473	66.016	29. 015	1.00 15.25	В	C
ATOM	7800	Õ	THR		81. 934		28. 227			C
ATOM	7801		VAL		82. 231	66. 831		1.00 18.88	В	0
	7802	N CA	VAL			65. 194	29. 720	1.00 15.28	В	N .
ATOM ATOM	7803	CA CB	VAL		83. 675	65. 195 64. 717	29. 578	1.00 15.13	В	C
	7804				84. 335		30. 882	1.00 13.64	В	C
ATOM			VAL	252	85. 827	64. 580	30. 706	1.00 10.22	В	C C C
ATOM	7805		VAL	252	84.012	65. 701	31.991	1.00 11.83	В	
ATOM	7806	C	VAL	252	84. 027	64. 264	28. 422	1.00 17.21	В	C
ATOM	7807	0 N	VAL	252	83. 472	63. 173	28. 304	1.00 17.34	В	0
ATOM	7808	N	ARG	253	84. 929	64.710	27. 557	1.00 18.91	В	N
ATOM	7809	CA	ARG	253	85. 349	63. 922	26. 403	1.00 20.46	В	C
ATOM	7810	CB	ARG	253	84. 822	64. 560	25. 113	1.00 22.21	В	C
ATOM	7811	CG	ARG	253	83. 399	64. 137	24. 755	1.00 26.72	В	C
ATOM	7812	CD	ARG	253	82. 847	64. 920	23. 578	1.00 28.87	В	C
ATOM	7813	NE	ARG	253	82. 176	66. 132	24. 033	1.00 36.20	В	N
ATOM	7814	CZ	ARG	253	80.870	66. 221	24. 278	1.00 38.47	В	C
ATOM	7815		ARG	253	80.084	65. 164	24. 099	1.00 39.84	В	N
ATOM	7816		ARG	253	80. 352	67. 360	24. 727	1.00 37.97	В	N
ATOM	7817	C	ARG	253	86.863	63. 863	26. 389	1.00 19.71	В	C
ATOM	7818	0	ARG	253	87. 520	64. 886	26. 246	1.00 21.87	В	0
ATOM	7819	N	VAL	254	87. 404	62.656	26. 538	1.00 18.34	В	N
ATOM	7820	CA	VAL	254	88. 847	62. 434	26. 594	1.00 15.15	В	C
ATOM	7821	CB	VAL	254	89. 257	61.924	27. 994	1.00 16.16	В	C
ATOM	7822	CG1		254	90. 771	61.759	28. 081	1.00 15.18	В	C
ATOM	7823	CG2		254	88. 736		29.065	1.00 16.46	В	C
ATOM	7824	C	VAL	254	89. 313	61.397	25. 585	1.00 14.67	В	С
ATOM	7825	0	VAL	254	88. 806	60. 272	25. 566	1.00 14.87	В	0
ATOM	7826	N	PRO	255	90. 281	61.757	24. 726	1.00 13.62	В	N
ATOM	7827	CD	PRO	255	90. 872	63. 081	24. 472	1.00 12.90	В	C
ATOM	7828	CA	PRO	255	90. 760	60.777	23. 746	1.00 12.62	В	С
ATOM	7829		PRO	255	91.786	61.566	22. 933	1.00 11.40	В	C
ATOM	7830		PRO	255	91. 263	62.969	23.013	1.00 11.65	В	С
ATOM	7831	C	PRO	255	91.379	59.645	24. 553	1.00 12.46	В	С
ATOM	7832	0	PRO	255	92. 355	59. 831	25. 282	1.00 13.25	В	0
ATOM	7833	N	TYR	256	90. 796	58. 469	24. 414	1.00 12.53	В	N
ATOM	7834	CA	TYR	256	91. 217	57. 306	25. 161	1.00 12.05	В	С
ATOM	7835	CB	TYR	256	90. 319	57. 205	26. 398	1.00 12.42	В	C
ATOM	7836	CG	TYR	256	90. 608	56.082	27. 360	1.00 14.53	В	C
ATOM	7837	CD1		256	91.021	56. 355	28. 662	1.00 16.44	В	C
ATOM	7838	CE1		256	91. 192	55. 337	29. 596	1.00 17.38	В	C
ATOM	7839	CD2	TYR	256	90. 382	54. 752	27.010	1.00 15.31	В	С

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					FIG.	. 4 -	161			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7840 7841 7842 7843 7844 7845 7846 7847 7848 7849 7850 7851 7852 7853	CZ OH C O N CD CA CB CG C O N CA	Z TYR TYR TYR TYR PRO PRO PRO PRO PRO PRO PRO PRO PRO LYS LYS	256 256 256 256 256 257 257 257 257 257 257 257 258 258	90. 949 91. 068 91. 040 89. 923 92. 141 93. 535 92. 098 93. 473 94. 326 91. 859 92. 694 90. 723	53. 724 54. 030 53. 042 56. 094 55. 765 55. 415 55. 786 54. 229 54. 233 54. 657 52. 949 52. 556 52. 300 51. 057	1 6 1 27. 941 29. 232 30. 176 24. 263 23. 870 23. 924 24. 231 23. 068 22. 438 23. 606 23. 869 24. 681 23. 648 24. 353	1. 00 16. 91 1. 00 16. 54 1. 00 17. 03 1. 00 11. 63 1. 00 13. 76 1. 00 10. 78 1. 00 9. 21 1. 00 9. 97 1. 00 8. 95 1. 00 8. 91 1. 00 11. 12 1. 00 9. 90 1. 00 11. 97 1. 00 13. 52	B B B B B B B B B B B B B B B B B B B	(Continued)  C C C O N C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7854 7855 7856 7857 7858 7859 7860 7861 7862 7863 7864 7865 7866	CB CCD CE NZ C O N CA CB C	LYS LYS LYS LYS LYS ALA ALA ALA ALA	258 258 258 258 258 258 259 259 259 259	88. 930 5 5 88. 305 5 86. 801 5 86. 204 5 86. 355 5 91. 101 4 91. 522 5 91. 227 4 91. 564 4 91. 476 4 90. 293 4	50. 855 61. 808 61. 730 62. 655 62. 156 63. 139 63. 760 63. 356 64. 356 74. 476 74. 415	24. 492 25. 522 25. 552 26. 627 28. 030 23. 571 22. 437 24. 178 23. 515 24. 261 22. 045 21. 710	1. 00 15. 66 1. 00 14. 41 1. 00 18. 08 1. 00 19. 12 1. 00 14. 62 1. 00 14. 64 1. 00 16. 07 1. 00 16. 22 1. 00 14. 83 1. 00 14. 32 1. 00 16. 09 1. 00 15. 64	B B B B B B B B	C C C N C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7867 7868 7869 7870 7871 7872 7873 7874 7875 7876 7877	CA C O N CA CB C O N CA CB	GLY GLY GLY ALA ALA ALA ALA VAL VAL VAL VAL	260 260 260 261 261 261 261 262 262 262 262	92. 221 4 91. 841 4 91. 781 4 91. 587 4 91. 198 5 90. 557 5 92. 379 5 93. 489 56 92. 135 55 93. 192 55	8. 523 8. 488 9. 629 0. 851 1. 830 1. 509 0. 986 2. 662 3. 384 4. 371	19. 963 18. 292 18. 298 17. 686 17. 004 15. 947	1. 00 15. 95 1. 00 15. 99 1. 00 17. 08 1. 00 18. 87 1. 00 14. 62 1. 00 14. 89 1. 00 13. 58 1. 00 17. 12 1. 00 20. 05 1. 00 17. 34 1. 00 16. 00 1. 00 14. 51	B B B B B B B B	N C C O N C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7879 7880 7881 7882 7883 7884 7885 7886 7887		VAL VAL ASN ASN ASN ASN ASN	262 262 262 263 263 263 263 263 263 263	91. 970 53 93. 984 54 93. 432 54 95. 275 53 96. 190 54 97. 406 53 97. 230 52 97. 919 51 96. 329 52	3. 596 4. 150 4. 973 3. 856 4. 493 3. 595 2. 629 1. 606 2. 950	14. 820 18. 055 18. 786 18. 128 19. 068 19. 292 20. 437 20. 500 21. 365	1. 00 13. 59 1. 00 10. 82 1. 00 17. 31 1. 00 20. 51 1. 00 16. 87 1. 00 17. 45 1. 00 17. 58 1. 00 20. 08 1. 00 19. 88 1. 00 18. 44 1. 00 18. 01	B B B B B B B B	C C C O N C C C O N C

F I G. 4 - 162										
ATOM	7889	0	ASN	263	96. 578	56. 134		1.00 19.39	n	0
ATOM	7890	Ň	PRO		97. 288	56. 646		1.00 17.06	B B	0 N
ATOM	7891	CD	PRO		97. 357	56. 546	20. 883	1.00 17.00	В	N C
ATOM	7892	CA	PRO		97. 819	57. 926	18. 950	1.00 15.10	В	Č
ATOM	7893	CB	PRO		98. 089	58. 676	20. 251	1.00 14.78	В	č
ATOM	7894	CG	PRO		98. 411	57. 569	21. 214	1.00 14.94	В	č
ATOM	7895	С	PRO		99. 105	57.605	18. 198	1.00 15.50	B	č
ATOM	7896	0	PRO		99.669	56. 527	18. 369	1.00 15.27	B	ŏ
ATOM	7897	N	THR		99. 560	58. 521	17. 354	1.00 16.21	B	Ň
ATOM	7898	CA	THR	265	100.796	58.305	16.617	1.00 15.30	B	Ċ
ATOM	7899	CB	THR		100.647	58.677	15.132	1.00 15.20	B	Č
ATOM	7900	0G1		265	100.081	59.983	15.029	1.00 17.05	В	0
ATOM	7901		? THR	265	99. 747	57.687	14.415	1.00 10.60	В	Č
ATOM	7902	C	THR	265	101.818	59. 211	17. 279	1.00 16.13	В	C
ATOM	7903	0	THR	265	101. 454	60.126	18.007	1.00 16.83	. В	0
ATOM	7904	N	VAL	266	103. 095	58. 971	17.030	1.00 17.64	В	N
ATOM	7905	CA	VAL	266	104.118	59. 781	17.667	1.00 17.49	В	C
ATOM	7906	CB	VAL	266	104.626	59.060	18.930	1.00 15.28	В	С
ATOM	7907		VAL	266	105. 224	57. 714	18. 538	1.00 12.10	В	C C
ATOM	7908		VAL	266	105. 642	59. 921	19.666	1.00 12.62	В	C
ATOM	7909	C	VAL	266	105. 312	60.112	16.769	1.00 19.23	В	C
ATOM	7910	0	VAL	266	105. 693	59. 331	15. 893	1.00 18.24	В	0
ATOM	7911	N	LYS	267	105. 889	61. 287	17.003	1.00 20.19	В	N
ATOM ATOM	7912	CA	LYS	267	107. 058	61.756	16. 272	1.00 19.42	В	С
ATOM	7913	CB CG	LYS	267	106. 678	62. 855	15. 291	1.00 19.76	В	C
ATOM	7914 7915	CD	LYS	267 267		62.413	14. 168	1.00 21.59	В	C
ATOM	7916	CE	LYS LYS	267 267	105.452	63. 605	13. 291	1.00 23.15	В	C
ATOM	7917	NZ	LYS	$\begin{array}{c} 267 \\ 267 \end{array}$		63. 205	12.119	1.00 23.47	В	C
ATOM	7918	C	LYS	267		64. 402	11. 334	1.00 27.20	В	N
ATOM	7919	Õ	LYS	267	108.032	62. 334 62. 826	17. 288	1.00 19.59	В	C
ATOM	7920	N	PHE	268	107.013	62. 275	18. 336 16. 984	1.00 20.86	В	0
ATOM	7921	CA	PHE	268		62.818	17. 882	1.00 19.32 1.00 18.94	В	N
ATOM	7922	CB	PHE	268		61.757	18. 259	1.00 18.94	В	C
ATOM	7923	CG	PHE	268		62. 131	19. 444	1.00 17.47	В	C
ATOM	7924		PHE	268		62. 290	20. 692	1.00 16.21	B B	C
ATOM	7925		PHE	268		62. 327	19. 313	1.00 16.35	В	C
ATOM	7926		PHE	268		62. 639	21. 797	1.00 18.80	В	C C
ATOM	7927		PHE	268		62.674	20. 405	1.00 17.68	В	C
ATOM	7928	CZ	PHE	268		62. 832	21.655	1.00 18.66	В	Č
ATOM	7929	C	PHE	268		63. 979	17. 192	1.00 20.34	В	C
ATOM	7930	0	PHE	268		64.016	15. 968	1.00 21.73	В	0
ATOM	7931	N	PHE	269		64. 931	17. 981	1.00 20.76	В	N
ATOM	7932	CA	PHE	269		66.105	17. 435	1.00 20.74	B	C
ATOM	7933	CB	PHE	269		67. 239	17. 222	1.00 19.80	B	č
ATOM	7934	CG	PHE	269	110.070	66. 937		1.00 21.88	B	č
ATOM	7935	CD1		269		67.019		1.00 22.75	В	Č
ATOM	7936	CD2		269		66. 605	16.631	1.00 23.20	В	Č
ATOM	7937	CE 1	PHE	269	109.326	66. 781		1.00 21.98	В	Č

							(Continued)
					FIG. 4-163		
ATOM ATOM ATOM ATOM ATOM	7938 7939 7940 7941 7942	CE: CZ C O N	2 PHE PHE PHE PHE VAL	269 269 269 269 270		B B B B	C C C O N
ATOM ATOM ATOM	7943 7944 7945	CA CB CG	VAL VAL	270 270 270	115. 239 67. 896 18. 667 1. 00 23. 26 116. 527 67. 062 18. 635 1. 00 23. 10	B B B	C C C
ATOM ATOM ATOM	7946 7947 7948	C 0	VAL VAL VAL	270 270 270	116. 219 65. 609 18. 985 1. 00 23. 02 115. 495 69. 285 18. 095 1. 00 25. 32 115. 600 69. 460 16. 880 1. 00 26. 00	B B B	C C O
ATOM ATOM ATOM ATOM	7949 7950 7951	N CA CB	VAL VAL VAL	271 271 271	115. 794 71. 650 18. 546 1. 00 27. 45 114. 516 72. 514 18. 714 1. 00 28. 95	B B B	N C C
ATOM ATOM ATOM	7952 7953 7954 7955		VAL VAL VAL VAL	271 271 271 271	114. 769 73. 915 18. 186 1. 00 29. 54 116. 926 72. 258 19. 363 1. 00 27. 39	B B B B	C C C
ATOM ATOM ATOM	7956 7957 7958	N CA CB	ASN ASN ASN	272 272 272	117. 706 73. 128 18. 728 1. 00 27. 87 118. 828 73. 788 19. 383 1. 00 27. 39	B B B	N C C
ATOM ATOM ATOM ATOM	7959 7960 7961 7962	ND2	ASN ASN ASN	272 272 272	121. 179 74. 672 19. 031 1. 00 29. 11 121. 094 75. 706 19. 696 1. 00 28. 35 122. 330 74. 036 18. 841 1. 00 30. 38	B B B	C O N
ATOM ATOM ATOM	7963 7964 7965	C O N CA	ASN ASN THR THR	272 272 273 273	117. 943 76. 012 19. 243 1. 00 27. 41 118. 397 75. 208 21. 292 1. 00 27. 62	B B B	C O N C
ATOM ATOM ATOM	7966 7967 7968	CB OG1 CG2	THR THR THR	273 273 273	117. 509 76. 100 23. 400 1. 00 27. 46 118. 653 75. 727 24. 181 1. 00 28. 06 116. 510 74. 960 23. 403 1. 00 26. 33	B B	C 0 C
ATOM ATOM ATOM ATOM	7969 7970 7971 7972	C O N CA	THR THR ASP ASP	273 273 274 274	118. 988 77. 516 21. 967 1. 00 31. 23 118. 669 78. 680 22. 208 1. 00 32. 66 120. 239 77. 157 21. 698 1. 00 32. 45	3 3 3	C O N
ATOM ATOM ATOM	7973 7974 7975	CB CG	ASP ASP ASP	274 274 274 274	121. 315     78. 139     21. 676     1. 00 33. 79     E       122. 671     77. 446     21. 775     1. 00 34. 63     E       123. 019     77. 049     23. 193     1. 00 36. 82     E       124. 047     76. 363     23. 385     1. 00 37. 48     E	} }	C C C
ATOM ATOM ATOM	7976 7977 7978	0D2 C 0	ASP ASP ASP	274 274 274	122. 267 77. 430 24. 117 1. 00 37. 18 B 121. 277 78. 996 20. 419 1. 00 35. 09 B 121. 899 80. 058 20. 366 1. 00 34. 53 B	} }	0 C 0
ATOM ATOM ATOM	7979 7980 7981	N CA CB	SER SER SER	275 275 275	120. 540 78. 542 19. 412 1. 00 35. 53 B 120. 456 79. 279 18. 166 1. 00 37. 39 B 121. 096 78. 462 17. 051 1. 00 36. 90 B	} }	N C C
ATOM ATOM ATOM ATOM	7982 7983 7984 7985	OG C O N	SER SER SER LEU	275 275 275 276	120. 476 77. 197 16. 948 1. 00 41. 05 B 119. 030 79. 652 17. 781 1. 00 39. 58 B 118. 580 79. 355 16. 673 1. 00 40. 66 B	}	0 C 0
ATOM	7986	CA	LEU	276	118. 323 80. 311 18. 695 1. 00 40. 56 B 116. 949 80. 732 18. 443 1. 00 40. 53 B		N C



				FI	G. 4	- 164	4		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7993 7994 7995 7996 7997 7998 7999 8000 8001 8002 8003 8004 8005 8006 8007 8008 8009 8010 8011 8012 8013 8014 8015 8016 8017 8018 8019 8020 8021 8022 8023 8024 8025 C 8026 8027 8028 8029 C 8027 8028 8029 C 8021 8022 8023 8024 8025 C 8026 8027 8028 8029 C 8021 8022 8023 8024 8025 C 8026 8027 8028 8029 C 8021 8022 8023 8024 8025 C 8026 8027 8028 8029 C 8020 8031 8032 8033 C 8031 8032 8033	VAL N THR CA THR CB THR CG1 THR CG2 THR CG2 THR CG2 THR CG3 THR CG3 ASN ASN A ASN A ASN ASN ASN ASN ALA A ALA A ALA THR A THR	276 276 276 276 277 277 277 277 277 277	116. 076 116. 002 115. 319 115. 261 116. 914 117. 675 116. 029 115. 916 116. 489 116. 268 114. 494 113. 529 114. 378 113. 081 113. 204 113. 617 112. 531 111. 325 113. 419 112. 995 114. 189 113. 709 114. 902 112. 340 111. 130 113. 145 112. 651 113. 719 113. 179 114. 946 112. 238 112. 651 113. 719 113. 179 114. 946 112. 238 112. 651 113. 719 113. 179 114. 946 112. 238 112. 651 113. 719 113. 179 114. 946 112. 863 111. 797 113. 905	80. 425	19. 664 20. 097 21. 445 19. 057 18. 140 18. 721 17. 233 16. 863 15. 462 15. 044 16. 902 16. 701 17. 148	4 1.00 38.58 7 1.00 36.34 5 1.00 35.16 7 1.00 32.57 0 1.00 41.99 1 1.00 41.16 3 1.00 44.02 3 1.00 46.53 1 1.00 46.23 1.00 46.23 1.00 46.82 1.00 46.82 1.00 47.82 1.00 48.09 1.00 48.09 1.00 48.14 1.00 48.26	B B B B B B B B B B B B B B B B B B B	C C C C C O C O C C O C C C C C C O N C C C C
ATOM ATOM	8034 CF 8035 OC		283 283		74. 772 75. 994	12. 218 11. 495	1.00 37.70 1.00 41.71	B B	Č O

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					FIC	G. 4-	165			(Continued)
ATOM	8036	CG2	THR	283	114. 736	73. 595	11. 265	1.00 37.32	В	С
ATOM	8037	C	THR		114.074	73.403	14. 125	1.00 33.58	B	Č
ATOM	8038	0	THR	283	115.098	73. 263	14.774	1.00 34.31	B	0
ATOM	8039	N	SER	284	113. 123	72.482	14.073	1.00 32.05	B	N
ATOM	8040	CA	SER		113. 250	71. 230	14.800	1.00 30.43	B	C
ATOM	8041	CB	SER		111.935	70.893	15.507	1.00 28.61	В	Ċ
ATOM	8042	0G	SER		111.722	71.761	16.605	1.00 29.31	В	0
ATOM	8043	C	SER		113.638	70.090	13.883	1.00 30.34	В	С
ATOM	8044	0	SER		113.003	69.865	12.850	1.00 31.22	B	0
ATOM	8045	N	ILE	285	114.684	69. 367	14. 260	1.00 29.19	B	N
ATOM	8046	CA	ILE	285	115.130	68. 241	13.457	1.00 28.80	B	C
ATOM	8047	CB	ILE	285	116.660	68.037	13.546	1.00 29.35	B	Ċ
ATOM	8048		ILE	285	117.103	66.979	12.548	1.00 29.12	B	Ċ
ATOM	8049		ILE	285	117. 383	69.350	13.250	1.00 30.38	В	C
<b>ATOM</b>	8050		ILE	285	117.408	70.303	14.428	1.00 34.47	B	Č
ATOM	8051	C	ILE	285	114.429	66.996	13.976	1.00 28.14	В	Č
ATOM	8052	0	ILE	285	114.472	66.694	15.168	1.00 30.23	В	0
ATOM	8053	N	GLN	286	113.775		13.078	1.00 25.84	В	N
ATOM	8054	CA	GLN	286	113.067		13.457	1.00 24.81	В	C
ATOM	8055	CB	GLN	286	111.852		12.550	1.00 23.81	В	Č
ATOM	8056	CG	GLN	286	111.169		12.715	1.00 23.29	B	Č
ATOM	8057	CD	GLN	286	109. 928	63.417	11.868	1.00 23.98	B	Č
ATOM	8058		GLN	286	109. 253	62.388	11.894	1.00 25.22	$\tilde{B}$	Ö
ATOM	8059		GLN	286	109.614	64. 461	11.110	1.00 23.87	B	Ň
ATOM	8060	C	GLN	286	113.955	63.838	13.386	1.00 25.74	B	Č
ATOM	8061	0	GLN	286	114.832	63.732	12.526	1.00 26.39	B	0
ATOM	8062	N	ILE	287	113.723	62.908	14.307	1.00 24.54	B	N
ATOM	8063	CA	ILE	287	114.458	61.655	14.346	1.00 23.40	B	Ċ
ATOM	8064	CB	ILE	287	115.193	61.481	15.694	1.00 21.87	B	Č
ATOM	8065	CG2	ILE	287	115.925	60.143	15.728	1.00 20.61	B	Č
ATOM	8066		ILE	287	116.180	62.632	15.887	1.00 19.27	В	Č
ATOM	8067		ILE	287	117.054		17.113	1.00 20.58	B	Č
ATOM	8068	C	ILE	287	113.394			1.00 24.59	В	Č
ATOM	8069	0	ILE	287	112.729		15.142	1.00 27.03	В	0
ATOM	8070	N	THR	288	113. 219		12.966	1.00 25.43	В	N
ATOM	8071	CA	THR	288	112.205	59.088	12.708	1.00 26.10	В	С
ATOM	8072	CB	THR	288	111.964	58.927	11.188	1.00 26.69	В	C
ATOM	8073	0G1	THR	288	113.172	58.516	10.539	1.00 26.37	В	0
ATOM	8074	CG2	THR	288	111.510		10.593	1.00 25.25	В	С
ATOM	8075	С	THR	288	112.529	57. 741	13.335	1.00 26.85	В	C
ATOM	8076	0	THR	288	113.687	57. 379	13.503	1.00 27.04	В	0
ATOM	8077	N	ALA	289	111.484	57.011	13.702	1.00 28.37	В	N
ATOM	8078	CA	ALA	289	111.638		14.325	1.00 27.90	В	С
ATOM	8079	CB	ALA	289	110.271	55. 151	14.710	1.00 26.91	В	С
ATOM	8080	С	ALA	289	112.348		13.380	1.00 27.44	В	C
ATOM	8081	0	ALA	289	112.550		12.205	1.00 28.30	В	0
ATOM	8082	N	PRO	290	112.758		13.895	1.00 26.01	В	N
ATOM	8083	CD	PRO	290	112.903		15.328	1.00 24.74	В	C
ATOM	8084	CA	PRO	290	113. 445	52.569	13.089	1.00 25.29	В	С

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					FIG	4 - 1 6	6		(Continued)
ATOM	8085	СВ	PRO	290		1.587 14.1		76 B	С
ATOM	8086	CG	PRO	290		2.467 15.3			Č
ATOM	8087	C	PR0	290		1.931 12.1	10 1.00 25.		C
ATOM	8088	0	PRO	290		1.961 12.3			0
ATOM	8089	N	ALA	291		1.345  11.03			N
ATOM ATOM	8090 8091	CA CB	ALA ALA	291 291		$egin{array}{ccc} 0.730 & 10.09 \ 0.271 & 8.84 \end{array}$			C
ATOM	8092	CD	ALA	291		9. 568 10. 5'			C C
ATOM	8093	ŏ	ALA	291		9. 331 10. 14			Ö
ATOM	8094	N	SER	292	111.916 48	8.843 11.53			N
ATOM	8095	CA	SER	292	111.220 47	7. 704 12. 10	03 1.00 28.	19 B	C
ATOM	8096	CB	SER	292		6.892 12.99			С
ATOM	8097	OG	SER	292		7.626 14.14			0
ATOM ATOM	8098 8099	C 0	SER SER	292 292		3. 182     12. 92 7. 376     13. 30			C
ATOM	8100	N	MET	293		7. 376   13. 30 9. 487   13. 19			O N
ATOM	8101	CA	MET	293		0.072 13.95			C
ATOM	8102	CB	MET	293		1.173 14.89			č
ATOM	8103	CG	MET	293	110. 231 50	0.703 16.06			Č
ATOM	8104	SD	MET	293		). 647 17. 18			S
ATOM	8105	CE	MET	293		3. 319 17. 43			C
ATOM ATOM	8106 8107	C 0	MET MET	293 293		0.677  13.02			C
ATOM	8108	N	LEU	293 294		). 528 13. 25 . 360 11. 98			0 N
ATOM	8109	CA	LEU	294		2.008 11.04			N C
ATOM	8110	CB	LEU	294		. 930 10. 11			Č
ATOM	8111	CG	LEU	294		. 072 10. 78			č
ATOM	8112		LEU	294		. 787 9. 75		8 B	C
ATOM	8113		LEU	294		0.037 11.44		_	C
ATOM ATOM	8114 8115	C 0	LEU LEU	294		. 059 10. 20			C
ATOM	8116	N	ILE	294 295		.510 9.42 .754 10.35			0
ATOM	8117	CA	ILE	295		. 812 9. 58			N C
ATOM	8118	CB	ILE	295		. 444 9. 45			C
ATOM	8119	CG2	ILE	295		.595 8.81			č
ATOM	8120		ILE	295		.796 10.83		4 B	Č
ATOM	8121	CD1		295		. 388 10. 78			C
ATOM ATOM	8122 8123	C 0	ILE	295		. 575 10. 22			C
ATOM	8124	N	ILE GLY	295 296		.712 9.77 .328 11.27			0
ATOM	8125	CA	GLY	296		. 167 11. 95			N C
ATOM	8126	C	GLY	296		.040 13.18			Č
ATOM	8127	0	GLY	296	103.820 50.	. 818 13. 44			ŏ
ATOM	8128	N	ASP	297	101.818 49.	. 920 13. 93	5 1.00 20.3	8 B	N
ATOM	8129	CA	ASP	297		. 718 15. 14			С
ATOM ATOM	8130 8131	CB CG	ASP ASP	297 207		. 339 15. 87			C
ATOM	8132	0D1		297 297		. 665   15. 073 . 234   15. 503			C
ATOM	8133	0D2		297		. 350 14. 04			0 0
				•					3

										(Continued)
					FIC	G. 4-	167			(00220222000)
ATOM	8134	С	ASP	297	102.845	50. 481	16.065	1.00 20.31	В	С
ATOM	8135	0	ASP	297	103.419	49.390	16.096	1.00 20.82	В	0
ATOM	8136	N	HIS	<b>29</b> 8	103. 220	51.508	16.814	1.00 16.87	В	N
ATOM	8137	CA	HIS	298	104.335	51.384	17.734	1.00 16.48	В	C
ATOM	8138	CB	HIS	298	105.669		16.968	1.00 14.91	В	C
ATOM	8139	CG	HIS	298	105.868	52. 628	16.137	1.00 12.24	В	C
ATOM	8140	CD2	HIS	298	106.539	53.775	16.391	1.00 10.39	В	C
ATOM	8141	ND1	HIS	298	105. 264	52.802	14.909	1.00 11.35	В	N
ATOM	8142	CE1	HIS	298	105. 551	54.005	14. 445	1.00 11.25	В	C
ATOM	8143	NE2	HIS	298	106.323	54.616	15.326	1.00 11.96	В	N
ATOM	8144	<b>C</b> .	HIS	298	104. 274	52.560	18.693	1.00 15.84	В	C
ATOM	8145	0	HIS	298	103.484	53.476	18.505	1.00 17.04	В	0
ATOM	8146	N	TYR	299	105.127	52. 539	19.706	1.00 15.50	В	N
ATOM	8147	CA	TYR	299	105.163	53. 599	20.698	1.00 15.35	В	C
ATOM	8148	CB	TYR	299	104.640	53.095	22.047	1.00 14.51	В	C
ATOM	8149	CG	TYR	299	103.343	52.320	22.037	1.00 14.30	В	C
ATOM	8150		TYR	299	102.120	52.973	21.942	1.00 13.49	В	C
ATOM	8151		TYR	299	100.924	52.269	22.019	1.00 15.63	В	C
ATOM	8152		TYR	299	103.341	50. 933	22. 198	1.00 14.56	В	C
ATOM	8153		TYR	299	102.150	50. 216	22. 273	1.00 15.40	В	C
ATOM	8154	CZ	TYR	299	100.943	50. 891	22. 186	1.00 15.73	В	C
ATOM	8155	OH	TYR	299	99. 756	50. 197	22. 286	1.00 15.37	В	0
ATOM	8156	C	TYR	299	106. 583	54.084	20. 952	1.00 16.54	В	C
ATOM	8157	0	TYR	299	107. 559	53. 364	20. 732	1.00 15.53	В	0
ATOM	8158	N	LEU	300	106.688	55.316	21.428	1.00 16.67	В	N
ATOM	8159	CA	LEU	300	107. 975	55.853	21.818	1.00 17.75	В	C
ATOM	8160	CB	LEU	300	107.986	57. 367	21.654	1.00 18.54	В	C
ATOM	8161	CG	LEU	300	109. 238	58.059	22. 183	1.00 20.06	В	C
ATOM	8162		LEU	300	110.449	57. 535	21.429	1.00 20.50	В	C
ATOM	8163		LEU	300	109.107	59. 567	22.024	1.00 20.10	В	C
ATOM	8164	C	LEU	300	107.897	55. 477	23. 294	1.00 18.55	В	C
ATOM	8165	0	LEU	300	106.894	55. 783	23. 935	1.00 20.71	В	0
ATOM	8166	N	CYS	301	108.901	54.805	23. 849	1.00 18.50	В	N
ATOM	8167	CA	CYS	301	108.788	54.418	25. 252	1.00 20.22	В	C
ATOM	8168	CB	CYS	301	108.582	52.907	25. 375	1.00 20.55	В	C
ATOM	8169	SG	CYS	301	109.922	51.905	24. 722	1.00 26.11	В	S
ATOM	8170	C	CYS	301	109.895	54.842	26. 194	1.00 20.82	В	C
ATOM	8171	0	CYS	301	109.816	54. 579	27. 395	1.00 21.62	В	0
ATOM	8172	N	ASP	302	110.922	55. 496	25.662	1.00 22.13	В	N
ATOM	8173	CA	ASP	302	112.035	55. 968	26. 481	1.00 20.03	В	Č
ATOM	8174	CB	ASP	302	112.875	54.810	27.014	1.00 20.49	В	Č
ATOM	8175	CG	ASP	302	114.035	55. 296	27. 868	1.00 25.77	В	C
ATOM	8176		ASP	302	113.880	55. 344	29. 109	1.00 26.02	В	0
ATOM	8177		ASP	302	115.097	55.664	27. 297	1.00 27.73	В	0
ATOM	8178	C	ASP	302	112.959	56.894	25. 711	1.00 20.08	В	C
ATOM	8179	0 N	ASP	302	113.367	56. 596	24. 586	1.00 19.30	В	0 N
ATOM	8180	N CA	VAL	303 303	113.302	58.010	26.343	1.00 20.41	В	N C
ATOM	8181 8182	CA CB	VAL	303 303	114.188	59.000	25. 756	1.00 20.36	В	C
ATOM	0102	CD	VAL	อบอ	113.435	60.316	25.470	1.00 19.97	В	C

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					FIC	G. 4-	168			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8183 8184 8185 8186 8187 8188 8189 8190	CG2 C O N CA CB OG1	VAL VAL VAL THR THR THR THR	303 303 303 304 304 304 304 304	114. 387 112. 260 115. 267 114. 950 116. 536 117. 639 118. 008 116. 869 119. 136	61.347 60.043 59.251	24. 857 24. 540 26. 788 27. 939 26. 389 27. 332 28. 046 28. 751 29. 026	1.00 20.23 1.00 17.52 1.00 21.02 1.00 19.39 1.00 21.38 1.00 21.48 1.00 19.77 1.00 19.55 1.00 20.57	B B B B B B	C C C O N C C O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8192 8193 8194 8195 8196 8197 8198 8199 8200	C O N CA CB CG CD2 CE2	THR THR TRP TRP TRP TRP TRP TRP TRP TRP	304 304 305 305 305 305 305 305 305	118. 925 119. 579 119. 307 120. 545 120. 696 119. 682 119. 834 118. 614 120. 885	59. 851 59. 159 61. 069 61. 643 63. 114 64. 002 64. 751 65. 413 64. 928	26. 729 25. 952 27. 102 26. 583 26. 975 26. 354 25. 150 24. 917 24. 243	1.00 22.96 1.00 25.30 1.00 22.41 1.00 21.86 1.00 20.21 1.00 18.90 1.00 18.79 1.00 20.14 1.00 18.65	B B B B B B	C O N C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8201 8202 8203 8204 8205 8206 8207 8208	CD1 NE1 CZ2 CZ3 CH2 C O N	TRP TRP TRP TRP TRP TRP TRP ALA	305 305 305 305 305 305 305 306	118. 414 117. 764 118. 413 120. 689 119. 459 121. 722 121. 743 122. 697	64. 232 65. 077 66. 242 65. 746 66. 395 60. 875 60. 552 60. 591	26. 794 25. 938 23. 812 23. 152 22. 943 27. 148 28. 338 26. 285	1. 00 17. 49 1. 00 18. 37 1. 00 19. 16 1. 00 19. 59 1. 00 21. 43 1. 00 22. 21 1. 00 21. 63 1. 00 22. 53	B B B B B	C N C C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8209 8210 8211 8212 8213 8214 8215 8216 8217	CG2		306 306 306 306 307 307 307 307	123. 899 124. 350 124. 975 125. 675 125. 086 126. 057 127. 285 126. 894 127. 892	59. 864 58. 969 60. 882 60. 767 61. 885 62. 964 62. 744 62. 855 61. 374	26. 673 25. 533 27. 000 28. 007 26. 133 26. 284 25. 411 24. 040 25. 659	1.00 21.31 1.00 20.65 1.00 21.97 1.00 20.32 1.00 23.85 1.00 24.42 1.00 22.67 1.00 25.33 1.00 19.34	B B B B B B	C C O N C C C O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8218 8219 8220 8221 8222 8223 8224 8225 8226	C O N CA CB CG CD OE1 NE2	THR THR GLN GLN GLN GLN GLN GLN GLN	307 307 308 308 308 308 308 308 308	125. 397 124. 177 126. 210 125. 699 126. 762 127. 301 126. 256 126. 477	64. 250 64. 326 65. 249 66. 540 67. 634 67. 811 68. 296 68. 290	25. 812 25. 731 25. 479 25. 022 25. 175 26. 574 27. 548 28. 754	1. 00 25. 73 1. 00 28. 17 1. 00 26. 09 1. 00 24. 49 1. 00 22. 95 1. 00 21. 20 1. 00 20. 30 1. 00 23. 08	B B B B B B B	C O N C C C C
ATOM ATOM ATOM ATOM ATOM	8227 8228 8229 8230 8231	C O N CA CB	GLN GLN GLU GLU GLU	308 308 309 309 309	125. 116 125. 284 124. 612 125. 687 125. 370 126. 581	68. 727 66. 501 67. 411 65. 459 65. 374 65. 807	27. 032 23. 569 23. 095 22. 855 21. 440 20. 627	1.00 21.02 1.00 25.09 1.00 26.23 1.00 25.59 1.00 26.16 1.00 25.99	B B B B B	N C O N C C

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				FIC 4-160	(Continued)
				FIG. 4-169	
ATOM ATOM ATOM	8232 8233 8234	CD GLU	309	126.925 67.280 20.774 1.00 29.27 128.243 67.637 20.109 1.00 31.48 128.614 66.968 19.115 1.00 33.35	
ATOM ATOM	8235	OE2 GLU	309	128. 900 68. 593 20. 572 1. 00 32. 54	3 0
ATOM	8236 8237	C GLU O GLU	309 309	124. 939 63. 991 21. 004 1. 00 26. 83 124. 850 63. 712 19. 806 1. 00 28. 64	
ATOM	8238	N ARG	310	124.674 63.131 21.982 1.00 25.93 B	
ATOM ATOM	8239	CA ARG	310	124.246 61.765 21.723 1.00 24.07 B	B C
ATOM	8240 8241	CB ARG CG ARG	310 310	125. 357 60. 790 22. 121 1. 00 24. 28 B 125. 012 59. 317 21. 952 1. 00 25. 64 B	
ATOM	8242	CD ARG	310	125. 012 59. 317 21. 952 1. 00 25. 64 B 126. 255 58. 469 22. 132 1. 00 24. 20 B	
ATOM	8243	NE ARG	310	127. 225 58. 790 21. 097 1. 00 25. 36 B	
ATOM ATOM	8244 8245	CZ ARG NH1 ARG	310 310	128. 533 58. 590 21. 195 1. 00 26. 41 B	
ATOM	8246	NH2 ARG	310	129. 056 58. 063 22. 298 1. 00 26. 17 129. 321 58. 928 20. 183 1. 00 26. 60 B	
ATOM	8247	C ARG	310	122. 984 61. 488 22. 528 1. 00 23. 55 B	
ATOM ATOM	8248 8249	O ARG N ILE	310	122. 965 61. 607 23. 757 1. 00 23. 67 B	0
ATOM	8250	N ILE CA ILE	311 311	121. 922 61. 124 21. 829 1. 00 21. 75 B 120. 663 60. 843 22. 491 1. 00 20. 40 B	
ATOM	8251	CB ILE	311	120. 663 60. 843 22. 491 1. 00 20. 40 B 119. 586 61. 876 22. 067 1. 00 18. 52 B	C C
ATOM ATOM	8252	CG2 ILE	311	119. 293 61. 742 20. 593 1. 00 18. 77 B	č
ATOM	8253 8254	CG1 ILE	311 311	118. 305 61. 686 22. 879 1. 00 18. 16 B 117. 255 62. 774 22. 626 1. 00 15. 33 B	C
ATOM	8255	C ILE	311	117. 255 62. 774 22. 626 1. 00 15. 33 B 120. 233 59. 440 22. 107 1. 00 20. 81 B	C
ATOM	8256	0 ILE	311	120. 380 59. 036 20. 959 1. 00 21. 43 B	Õ
ATOM ATOM	8257 8258	N SER CA SER	312 312	119.734 58.686 23.080 1.00 21.54 B	N
ATOM	8259	CB SER	312	119. 269 57. 326 22. 832 1. 00 21. 49 B 119. 889 56. 355 23. 837 1. 00 22. 73 B	C
ATOM	8260	OG SER	312	119. 365 56. 575 25. 132 1. 00 23. 02 B	C 0
ATOM ATOM	8261 8262	C SER	312	117. 758 57. 315 22. 985 1. 00 20. 72 B	č
ATOM	8263	O SER N LEU	312 313	117. 214 57. 998 23. 853 1. 00 22. 17 B 117. 088 56. 544 22. 136 1. 00 21. 93 B	0
ATOM	8264	CA LEU	313	117. 088 56. 544 22. 136 1. 00 21. 93 B 115. 631 56. 428 22. 155 1. 00 22. 17 B	N C
ATOM	8265	CB LEU	313	115.013 57.179 20.979 1.00 23.76 B	Č
ATOM ATOM	8266 8267	CG LEU CD1 LEU	313 313	115. 314 58. 656 20. 754 1. 00 27. 56 B 114. 707 59. 068 19. 410 1. 00 29. 23 B	С
ATOM	8268	CD2 LEU	313	114.707 59.068 19.410 1.00 29.23 B 114.740 59.497 21.890 1.00 28.89 B	C C
ATOM	8269	C LEU	313	115. 229 54. 968 22. 022 1. 00 22. 50 B	C
ATOM ATOM		O LEU N GLN	313	115. 868 54. 209 21. 293 1. 00 22. 55 B	0
ATOM		CA GLN	314 314	114.167 54.579 22.722 1.00 22.54 B 113.666 53.216 22.639 1.00 23.08 B	N
ATOM		CB GLN	314	113. 682 52. 549 24. 012 1. 00 22. 45 B	C C
ATOM ATOM		CG GLN CD GLN	314	115.065 52.459 24.626 1.00 25.62 B	C
ATOM		CD GLN OE1 GLN	314 314	115.092 51.630 25.898 1.00 26.36 B 114.835 50.428 25.870 1.00 27.68 B	C
ATOM	8277	NE2 GLN	314	114. 835 50. 428 25. 870 1. 00 27. 68 B 115. 403 52. 273 27. 023 1. 00 25. 65 B	O N
ATOM		C GLN	314	112. 242 53. 240 22. 083 1. 00 23. 35 B	C
ATOM ATOM		O GLN N TRP	314 315	111.412 54.045 22.513 1.00 22.96 B 111.984 52.372 21.108 1.00 22.35 B	0
			0.0	111.984 52.372 21.108 1.00 22.35 B	N

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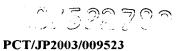
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						(Continued)
					FIG. 4-170	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8281 8282 8283 8284 8285 8286 8287 8288 8289 8290 8291 8292 8293 8294 8295 8296 8297 8298 8299 8300	CZ2 CZ3 CH2 C O N CA CB CG CD1 CD2 C	TRP TRP TRP TRP TRP TRP TRP TRP LEU LEU LEU LEU LEU LEU LEU	315 315 315 315 315 315 315 315 316 316 316 316 316 316	FIG. 4 - 170  110.672 52.262 20.484 1.00 21.75 110.769 52.440 18.968 1.00 21.09 111.376 53.741 18.540 1.00 21.09 110.678 54.940 18.176 1.00 19.81 111.654 55.901 17.824 1.00 20.24 109.325 55.295 18.113 1.00 17.16 112.705 54.018 18.405 1.00 21.12 112.880 55.310 17.974 1.00 21.84 111.321 57.197 17.413 1.00 18.97 108.992 56.588 17.704 1.00 20.13 109.990 57.522 17.359 1.00 19.26 110.118 50.880 20.790 1.00 22.37 110.877 49.922 20.941 1.00 24.80 108.799 50.772 20.872 1.00 21.02 108.159 49.502 21.184 1.00 20.90 107.653 49.544 22.628 1.00 19.84 106.866 48.358 23.194 1.00 19.46 107.786 47.157 23.408 1.00 18.22 106.223 48.783 24.501 1.00 16.50 106.995 49.228 20.229 1.00 20.90	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM	8301 8302 8303	O N CA	LEU ARG ARG	316 317	106. 161 50. 098 20. 000 1. 00 22. 41 B 106. 941 48. 026 19. 666 1. 00 19. 89 B	0 N
ATOM ATOM ATOM	8304 8305 8306	CB CG CD	ARG ARG ARG	317 317 317 317	105. 851       47. 678       18. 753       1. 00       20. 30       B         106. 154       46. 362       18. 035       1. 00       20. 73       B         107. 248       46. 480       16. 993       1. 00       23. 49       B         107. 524       45. 149       16. 321       1. 00       24. 95       B	C C C
ATOM ATOM ATOM	8307 8308 8309	NE CZ	ARG ARG ARG	317 317 317 317	108. 347 45. 314 15. 128 1. 00 25. 57 B 108. 925 44. 313 14. 476 1. 00 26. 73 B 108. 775 43. 061 14. 897 1. 00 23. 81 B	C N C N
ATOM ATOM ATOM	8310 8311 8312	C 0	ARG ARG ARG	317 317 317	109.656       44.567       13.401       1.00       29.12       B         104.537       47.545       19.512       1.00       19.31       B         104.541       47.266       20.713       1.00       17.59       B	N C O
ATOM ATOM ATOM	8313 8314 8315	N CA CB	ARG ARG ARG	318 318 318	103.415 47.747 18.820 1.00 18.54 B 102.117 47.621 19.476 1.00 17.04 B 100.970 47.781 18.483 1.00 17.09 B	N C C
ATOM ATOM ATOM ATOM	8316 8317 8318 8319	CG CD NE CZ	ARG ARG ARG ARG	318 318 318 318	99. 608       47. 794       19. 164       1. 00 17. 74       B         98. 613       48. 660       18. 414       1. 00 16. 48       B         97. 326       48. 672       19. 092       1. 00 16. 05       B         96. 320       49. 478       18. 771       1. 00 17. 02       B	C C N C
ATOM ATOM ATOM	8320 8321 8322	NH1 NH2 C	ARG	318 318 318	96. 464 50. 342 17. 771 1. 00 13. 59 B 95. 180 49. 428 19. 460 1. 00 12. 42 B 102. 085 46. 251 20. 132 1. 00 15. 28 B	N N C
ATOM ATOM ATOM	8323 8324 8325	O N CA	ARG ILE ILE	318 319 319	101. 569       46. 103       21. 234       1. 00 15. 74       B         102. 627       45. 251       19. 440       1. 00 15. 27       B         102. 757       43. 912       20. 007       1. 00 15. 37       B	O N C
ATOM ATOM ATOM ATOM	8326 8327 8328 8329	CG1	ILE ILE ILE ILE	319 319 319 319	103. 006       42. 848       18. 949       1. 00 15. 60       B         103. 268       41. 519       19. 621       1. 00 17. 64       B         101. 793       42. 732       18. 036       1. 00 15. 37       B         100. 524       42. 425       18. 781       1. 00 15. 54       B	C C C

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FIG. 4-171										
ATOM	8330	С	ILE	319	104.036	44. 122	20. 802	1.00 16.78	В	С
ATOM	8331	0	ILE	319	105.145	44.086	20. 257	1.00 16.37	В	0
ATOM	8332	N	GLN	320	103.850	44. 367	22.092	1.00 17.82	В	N
ATOM	8333	CA	GLN	320	104.923	44. 693	23.016	1.00 18.01	В	C
ATOM	8334	CB	GLN	320	104. 293	45. 341	24. 248	1.00 16.84	В	С
ATOM	8335	CG	GLN	320	103.383	46. 495	23.863	1.00 16.48	В	C
ATOM	8336	CD	GLN	320	102.833	47. 250	25.048	1.00 17.06	В	C
ATOM	8337		GLN	320	103.544	47. 509	26.016	1.00 18.02	В	0
ATOM	8338		GLN	320	101.566	47.633	24.966	1.00 16.46	В	N
ATOM	8339	C	GLN	320	105.964	43.663	23. 437	1.00 18.97	В	C
ATOM	8340	0	GLN	320	106.399	43.654	24.594	1.00 20.18	В	0
ATOM	8341	N	ASN	321	106.382	42.800	22.520	1.00 19.64	В	N
ATOM	8342	CA	ASN	321	107.420	41.846	22.875	1.00 21.44	В	C
ATOM	8343	CB	ASN	321	106.950	40.399	22.719	1.00 23.79	В	C
ATOM	8344	CG	ASN	321	106.409	40.085	21.332	1.00 27.68	В	C
ATOM	8345		ASN	321	106. 593	40.839	20.374	1.00 28.16	В	0
ATOM	8346		ASN	321	105. 745	38. 934	21.255	1.00 30.91	В	N
ATOM	8347	C	ASN	321	108.658	42.087	22.036	1.00 21.63	В	C
ATOM	8348	0	ASN	321	109. 533	41.228	21.940	1.00 23.87	В	0
ATOM	8349	N	TYR	322	108. 735	43. 275	21.444	1.00 20.56	В	N
ATOM	8350	CA	TYR	322	109.873	43.644	20.613	1.00 18.63	В	C
ATOM	8351	CB	TYR	322	109.605	43. 208	19.178	1.00 18.95	В	C
ATOM	8352	CG	TYR	322	110.766	43.362	18. 228	1.00 21.29	В	C
ATOM	8353		TYR	322	111.086	44.604	17.677	1.00 21.18	В	C
ATOM	8354	CE 1	TYR	322	112.118	44.733	16.759	1.00 22.17	В	С
ATOM	8355	CD2	TYR	322	111.520	42.252	17.840	1.00 20.55	В	C
ATOM	8356	CE2	TYR	322	112.557	42.372	16.925	1.00 21.33	В	С
ATOM	8357	CZ	TYR	322	112.847	43.611	16.387	1.00 22.88	В	С
ATOM	8358	OH	TYR	322	113.855	43.726	15.461	1.00 28.00	В	0
ATOM	8359	C	TYR	322	110.115	45.149	20.678	1.00 18.95	В	С
ATOM	8360	0	TYR	322	109. 240	45.945	20.338	1.00 20.45	В	0
ATOM	8361	N	SER	323	111. 299	45.537	21.139	1.00 18.50	В	N
ATOM	8362	CA	SER	323	111.657	46.946	21.233	1.00 17.89	В	С
ATOM	8363	CB	SER	323	111.623	47.418	22.684	1.00 18.88	В	С
ATOM	8364	0G	SER	323	112.602	46.740	23.444	1.00 21.21	В	0
ATOM	8365	C	SER	323	113.057	47.131	20.677	1.00 16.99	В	С
ATOM	8366	0	SER	323	113.851	46.190	20.657	1.00 15.79	В	0
ATOM	8367	N	VAL	324	113.360	48.345	20. 230	1.00 16.51	В	N
ATOM	8368	CA	VAL	324	114.672	48.638	19.664	1.00 17.39	В	C
ATOM	8369	CB	VAL	324	114.612	48.684	18.126	1.00 18.70	В	С
ATOM	8370	CG1	VAL	324	113.454	49.550	17.692	1.00 22.04	В	C
ATOM	8371		VAL	324	115.901	49.257	17.565	1.00 20.08	В	C
ATOM	8372	C	VAL	324	115. 201	49.970	20.151	1.00 16.54	В	C
ATOM	8373	0	VAL	324	114.460	50.946	20. 243	1.00 19.05	В	0
ATOM	8374	N	MET	325	116.487	50.011	20.463	1.00 15.89	В	N
ATOM	8375	CA	MET	325	117. 104	51.243	20.914	1.00 16.61	В	C
ATOM	8376	CB	MET	325	118.053	50.997	22.083	1.00 17.97	В	C
ATOM	8377	CG	MET	325	118.682	52.280	22.597	1.00 19.56	В	C
ATOM	8378	SD	MET	325	119.851	52.014	23. 915	1.00 22.61	В	S



						_				(Continued)
					FIC	G. 4-	172			
ATOM ATOM	8379 8380	CE C	MET MET	325 325	118. 765 117. 895	51. 442 51. 875	25. 211 19. 782	1.00 21.39 1.00 17.82	B B	C C
ATOM	8381	ŏ	MET	325	118.658	51. 198	19. 082	1.00 15.28	В	ŏ
ATOM	8382	N	ASP	326	117.698	53. 175	19.607	1.00 18.85	В	N
ATOM	8383	CA	ASP	326	118.409	53. 922	18. 591	1.00 21.89	В	C
ATOM	8384	CB	ASP	326	117. 436	54. 685	17. 695	1.00 22.04	В	C
ATOM	8385	CG	ASP	326	117. 533	54. 272	16. 244	1.00 23.15	В	C
ATOM	8386	0D1		326	116.800	54. 855	15.418	1.00 25.35	В	0
ATOM ATOM	8387 8388	C	ASP ASP	$\begin{array}{c} 326 \\ 326 \end{array}$	118. 334 119. 299	53. 366 54. 904	15. 922 19. 327	1.00 23.67 1.00 24.54	B B	0 C
ATOM	8389	0	ASP	326	113. 233	55. 494	20. 335	1.00 24.54	В	0
ATOM	8390	N	ILE	327	120. 521	55. 062	18. 842	1.00 25.49	В	N
ATOM	8391	CA	ILE	327	121.451	55. 986	19. 459	1.00 27.44	В	Ċ
ATOM	8392	CB	ILE	327	122.713	55. 263	19. 936	1.00 27.10	B	Č
ATOM	8393	CG2	ILE	327	123.697	56. 264	20.515	1.00 27.85	В	С
ATOM	8394		ILE	327	122.321	54. 221	20.984	1.00 25.49	В	C
ATOM	8395	CD1		327	123. 476	53. 506	21.594	1.00 27.60	В	C
ATOM	8396	C	ILE	327	121. 784	57. 005	18. 395	1.00 29.15	В	C
ATOM	8397	0	ILE	327	122. 357	56. 673	17. 357	1.00 31.19	В	0
ATOM	8398	N CA	CYS	328	121.414	58. 250	18.653	1.00 30.14	В	N
ATOM ATOM	8399 8400	CA C	CYS CYS	328 328	121.624 122.624	59. 298 60. 356	17. 684 18. 084	1.00 31.56 1.00 32.64	B B	C
ATOM	8401	Ö	CYS	328	122. 525	60. 972	19. 153	1.00 32.04	В	C 0
ATOM	8402	CB	CYS	328	120. 286	59. 938	17. 366	1.00 33.03	В	C
ATOM	8403	SG	CYS	328	118.979	58. 689	17. 154	1.00 36.31	В	Š
ATOM	8404	N	ASP	329	123. 596	60. 555	17. 200	1.00 32.72	B	N
ATOM	8405	CA	ASP	329	124.639	61.542	17.406	1.00 32.74	В	C
ATOM	8406	CB	ASP	329	125.997	60.975	16.981	1.00 34.70	В	C
ATOM	8407	CG	ASP	329	126.480	59.858	17.894	1.00 36.73	В	C
ATOM	8408		ASP	329	127. 643	59. 431	17. 735	1.00 38.23	В	0
ATOM	8409		ASP	329	125.706	59. 405	18. 767	1.00 36.00	В	0
ATOM ATOM	8410	C 0	ASP ASP	329 329	124.320	62. 781	16.588	1.00 31.70	В	C
ATOM	8411 8412	N	TYR	330	123. 767 124. 662	62. 692 63. 940	15. 494 17. 129	1.00 30.70 1.00 31.69	B B	0
ATOM	8413	CA	TYR	330	124. 420	65. 191	16. 428	1.00 31.09	В	N C
ATOM	8414	CB	TYR	330	124. 376	66. 354	17. 411	1.00 30.40	В	Č
ATOM	8415	ĊĠ	TYR	330	124. 322	67. 693	16. 728	1.00 29.75	В	č
ATOM	8416		TYR	330	123. 185	68.089	16.030	1.00 30.07	B	Č
ATOM	8417		TYR	330	123.121	69.326	15.399	1.00 30.94	В	C
ATOM	8418		TYR	330	125.407	68. 568	16.777	1.00 30.62	В	C
ATOM	8419		TYR	330	125. 356	69.814	16. 150	1.00 30.16	В	Ċ
ATOM	8420	CZ	TYR	330	124. 206	70. 186	15. 465	1.00 31.10	В	C
ATOM ATOM	8421 8422	OH C	TYR	330	124. 122	71.422	14.867	1.00 29.92	В	0
ATOM	8423	0	TYR TYR	330 330	125. 523 126. 692	65. 462 65. 552	15. 412 15. 772	1.00 35.09 1.00 36.29	B B	C 0
ATOM	8424	N	ASP	331	125. 149	65.600	14. 146	1.00 30.29	В	N N
ATOM	8425	CA	ASP	331	126. 123	65.886	13. 106	1.00 37.07	В	C
ATOM	8426	CB	ASP	331	125.611	65. 391	11.756	1.00 39.77	В	č
ATOM	8427	CG	ASP	331	126.665	65.464	10.677	1.00 40.31	B	Č

	FIG. 4-174										
4.TOM	0.488	0.5	. <b></b>	005							
ATOM ATOM	8477 8478		2 TRP		121.110	66. 825		1.00 18.08	В	C	
ATOM	8479		3 TRP 2 TRP		121. 932 121. 798	64. 567		1.00 15.24	В	C	
ATOM	8480				121. 798	65. 900		1.00 16.71	В	C	
ATOM	8481	ő	TRP		119. 983	62. 487 62. 167	13. 188 12. 482	1.00 31.57 1.00 33.23	В	C	
ATOM	8482	Ň	ASN		122.003	61.712	13. 347	1.00 33.23	B B	0 N	
ATOM	8483	CA	ASN		122.079	60. 426	12. 691	1.00 32.12	В	N C	
ATOM	8484	CB	ASN		123. 240	60.416	11.698	1.00 33.02	В	C	
ATOM	8485	CG	ASN		122.957	61. 271	10. 471	1.00 34.00	В	Č	
ATOM	8486		I ASN		123. 595	62. 306	10. 251	1.00 39.82	В	Ŏ	
ATOM	8487		2 ASN	338	121.984	60.845	9.669	1.00 38.06	В	Ň	
ATOM	8488	C	ASN	338	122.216	59. 294	13.693	1.00 33.48	B	Č	
ATOM	8489	0	ASN	338	123.009	59.364	14.631	1.00 33.12	B	Ö	
ATOM	8490	N	CYS	339	121.419	58. 251	13.499	1.00 33.60	В	N	
ATOM	8491	CA	CYS	339	121.459	57. 104	14. 385	1.00 34.06	В	С	
ATOM	8492	C	CYS	339	121.924	55.913	13. 564	1.00 33.56	В	С	
ATOM	8493	0	CYS	339	121.135	55. 296	12.848	1.00 34.05	В	0	
ATOM	8494	CB	CYS	339	120.071	56.829	14.961	1.00 34.96	В	C	
ATOM	8495	SG	CYS	339	118.997	58. 291	15. 160	1.00 37.83	В	S	
ATOM ATOM	8496 8497	N CA	LEU	340	123. 211	55. 604	13.665	1.00 32.80	В	N	
ATOM	8498	CB	LEU LEU	340	123. 798	54. 491	12. 933	1.00 33.83	В	C	
ATOM	8499	CG	LEU	340 340	125.303	54. 413	13. 218	1.00 34.61	В	C	
ATOM	8500		LEU	340 340	126. 163 127. 500	55. 530 55. 633	12.609	1.00 34.61	В	C	
ATOM	8501		LEU	340	126.352	55. 257	13. 322 11. 132	1.00 31.70	В	C	
ATOM	8502	C	LEU	340	123. 152	53. 151	13. 259	1.00 33.80 1.00 34.95	В	C	
ATOM	8503	Ŏ	LEU	340	123.061	52. 752	14.418	1.00 34.95	В	C	
ATOM	8504	Ň	VAL	341		52. 457	12. 220	1.00 34.03	B B	O N	
ATOM	8505	CA	VAL	341		51. 152	12.387	1.00 36.37	В	C	
ATOM	8506	CB	VAL	341		50.423	11.047	1.00 36.86	В	Č	
ATOM	8507	CG1		341		49.256	11.175	1.00 37.20	В	č	
ATOM	8508		VAL	341		51.391	9.968	1.00 38.15	B	č	
ATOM	8509	C	VAL	341		50.305	13.314	1.00 36.74	B	Ċ	
ATOM	8510	0	VAL	341		49.872	14.366	1.00 39.77	В	0	
ATOM	8511	N	ALA	342		50.073	12.913	1.00 35.94	В	N	
ATOM	8512	CA	ALA	342		49. 283	13. 704	1.00 34.75	В	С	
ATOM	8513	CB	ALA	342		49. 482	13. 178	1.00 34.41	В	C	
ATOM ATOM	8514	C	ALA	342		49.609	15. 194	1.00 34.74	В	C	
ATOM	8515 8516	0 N	ALA ARG	342 343		48. 897	16.001	1.00 36.76	В	0	
ATOM	8517	CA	ARG	343 343		50.688	15. 561	1.00 32.52	В	N	
ATOM	8518	CB	ARG	343		51.074 52.562	16.961	1.00 30.81	В	C	
ATOM	8519	CG	ARG	343		52. 562 52. 922	17. 120 16. 844	1.00 32.62 1.00 34.14	В	C	
ATOM	8520	CD	ARG	343		54. 396	17. 131	1.00 34.14	B B	C C	
ATOM	8521	NE	ARG	343		54. 692	17. 108	1.00 33.30	В	N N	
ATOM	8522	CZ	ARG	343		55. 885	17. 374	1.00 34.14	В	C	
ATOM	8523	NH1		343		56. 907	17.680	1.00 33.88	В	N	
ATOM	8524	NH2		343		56.052	17. 352	1.00 33.78	B	N	
ATOM	8525	C	ARG	343		50. 751	17.535	1.00 29.28	B	C	

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										(Continued)
					FIC	G. 4-	175			(Comming of the control of the contr
ATOM	8526	0	ARG	343	122.586	51.143	18.650	1.00 28.30	В	0
ATOM	8527	N	GLN	344	122. 121	50. 026	16. 763	1.00 28.05	В	N
ATOM	8528	CA	GLN	344	120. 786	49. 625	17. 183	1.00 28.26	В	Č
ATOM	8529	CB	GLN	344	119. 944	49. 238	15. 974	1.00 26.68	В	č
ATOM	8530	CG	GLN	344	118. 980	50. 296	15.516	1.00 30.39	В	č
ATOM	8531	CD	GLN	344	118. 091	49. 802	14. 399	1.00 31.50	В	č
ATOM	8532		GLN	344	117. 567	48. 685	14. 457	1.00 31.52	B	Ö
ATOM	8533		GLN	344	117. 905	50.632	13. 378	1.00 32.84	B	N
ATOM	8534	C	GLN	344	120. 853	48. 431	18. 121	1.00 28.55	B	Ċ
ATOM	8535	ŏ	GLN	344	121.655	47. 515	17. 919	1.00 28.32	B	ŏ
ATOM	8536	N	HIS	345	120.008	48. 436	19. 145	1.00 28.34	B	Ň
ATOM	8537	CA	HIS	345	119. 977	47. 329	20. 085	1.00 28.01	B	Ċ
ATOM	8538	CB	HIS	345	120. 514	47. 753	21.452	1.00 28.88	B	Č
ATOM	8539	CG	HIS	345	121.973	48. 079	21. 443	1.00 27.88	, B	Č
ATOM	8540		HIS	345	123.062	47. 279	21.516	1.00 26.67	B	Č
ATOM	8541		HIS	345	122.449	49. 361	21. 270	1.00 28.37	В	Ň
ATOM	8542		HIS	345	123.769	49. 337	21. 234	1.00 28.14	В	C .
ATOM	8543		HIS	345	124. 166		21.381	1.00 28.63	В	Ň
ATOM	8544	C	HIS	345	118.568	46.799	20. 215	1.00 27.76	В	С
ATOM	8545	0	HIS	345	117.659	47.508	20.625	1.00 30.01	В	0
ATOM	8546	N	ILE	346	118.396	45. 538	19.849	1.00 26.83	В	N
ATOM	8547	CA	ILE	346	117. 102	44.897	19.899	1.00 25.72	В	C
ATOM	8548	CB	ILE	346	116.977	43.842	18.791	1.00 25.56	В	C
ATOM	8549	CG2	ILE	346	115.655	43.114	18.919	1.00 26.17	В	С
ATOM	8550	CG1	ILE	346	117. 102	44.517	17.422	1.00 26.62	В	C
ATOM	8551	CD1	ILE	346	117.180	43. 544	16.263	1.00 26.42	В	C
ATOM	8552	C	ILE	346	116.854	44. 218	21.228	1.00 26.11	В	C
ATOM	8553	0	ILE	346	117. 736	43. 558	21.776	1.00 25.75	В	0
ATOM	8554	N	GLU	347	115.645	44.396	21.746	1.00 26.23	В	N
ATOM	8555	CA	GLU	347	115.260	43. 767	22.994	1.00 25.82	В	С
ATOM	8556	CB	GLU	347	115.226	44.777	24. 134	1.00 25.51	В	C
ATOM	8557	CG	GLU	347	115. 282	44. 118	25. 505	1.00 28.20	В	С
ATOM	8558	CD	GLU	347	115. 107	45.094	26.652	1.00 29.16	В	С
ATOM	8559		GLU	347	115.667	46. 208	26. 592	1.00 29.18	В	0
ATOM	8560		GLU	347	114. 415	44. 736	27. 628	1.00 32.76	В	0
ATOM	8561	C	GLU	347	113. 873	43. 172	22. 799	1.00 26.44	В	C
ATOM	8562	0	GLU	347	112.919	43. 889	22. 495	1.00 26.00	В	0
ATOM	8563	N	MET	348	113. 770	41.858	22. 957	1.00 26.58	В	N
ATOM	8564	CA	MET	348	112.492	41.181	22. 807	1.00 27.90	В	C
ATOM	8565	CB	MET	348	112. 270	40. 767	21. 345	1.00 30.41	В	C
ATOM	8566	CG	MET	348	113.466	40.132	20.660	1.00 34.65	В	C
ATOM	8567	SD	MET	348	113.695	38. 420	21. 117	1.00 42.21	В	S
ATOM	8568	CE	MET	348	112.733	37. 597	19.804	1.00 38.96	В	C
ATOM	8569 8570	C	MET MET	348	112.371	39. 980	23. 732	1.00 26.60 1.00 26.08	B B	C
ATOM ATOM	8570 8571	O N	SER	348 349	113. 363 111. 135	39. 472 39. 549	24. 247 23. 950	1.00 20.08	B B	O N
ATOM	8572	CA	SER	349 349	111. 133	38. 423	23. 950	1.00 23.99	В	C
ATOM	8573	CB	SER	349	100. 843	38. 894	25. 997	1.00 21.78	В	C
ATOM	8574	OG	SER	349	109. 309	37. 809	26. 700	1.00 20.73	В	0
V I OM	UUIT	00	OLK	040	103.406	31.003	20. 100	1.00 41.44	ע	U

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					FI	G. 4	- 176	5		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8591 8592 8593 8594 8595 8596 8597 8598 8599 8600 8601	C O N CA CB CG CD2 CE2 CE3	THR	349 349 350 350 350 350 351 351 351 351 351 352 352 352 353 353 353 353 353 353	F I  110. 084 109. 274 110. 351 109. 654 110. 603 111. 310 111. 583 108. 561 107. 732 108. 564 107. 601 108. 332 108. 989 109. 378 106. 575 105. 562 106. 839 105. 894 106. 182 106. 633 105. 913 106. 156 105. 165 104. 479 104. 739 103. 671 105. 798	4 37. 387 4 37. 739 36. 112 4 35. 033 8 33. 882 9 34. 453 34. 299 34. 453 34. 871 34. 366 33. 796 34. 859 32. 781 35. 392 35. 031 36. 668	24. 005 23. 154 24. 264 23. 571 23. 214 24. 391 22. 152 24. 475 24. 035 25. 737 26. 703	1. 00 21. 88 1. 00 23. 74 1. 00 21. 76 1. 00 23. 08 1. 00 22. 77 1. 00 25. 37 1. 00 22. 93 1. 00 22. 93	B B B B B B B B B B B B B B B B B B B	Continued)  C O N C C C O C C C O N C C C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8604 8605 8606 8607 8608 8609 8610 8611 8612 8613 8614 8615 8616 8617 8618 8619 8620 8621 8622	CZ2 CZ3 CH2 C O N CA CB CG1 CG2 C O N CA CCA CCA CCA CCA CCA	TRP TRP TRP TRP VAL VAL VAL VAL	353 353 353 353 353 354 354 354 354 355 355	105. 546 104. 217 103. 149 103. 426 107. 594 108. 247 108. 092 109. 464 110. 135 111. 506 110. 284 109. 486 108. 716 110. 373 110. 467 109. 333 108. 347 109. 456 108. 404 108. 856 110. 001	42. 791 40. 921 39. 524 39. 848 41. 796 40. 999 42. 946 43. 338 44. 096 44. 646 43. 163 44. 248 45. 197 43. 957 44. 554 43. 877 45. 126 44. 953 45. 494 44. 668	31. 265 32. 281 30. 625 31. 958 27. 264 27. 931 26. 819 27. 140 25. 960 24. 751 28. 368 28. 456 29. 313 30. 519 31. 513 31. 206 32. 706 33. 701 35. 066 35. 667	1. 00 10. 10 1. 00 10. 66 1. 00 10. 40 1. 00 9. 81 1. 00 15. 80 1. 00 16. 59 1. 00 13. 84 1. 00 13. 65 1. 00 16. 06 1. 00 12. 56 1. 00 12. 49 1. 00 13. 83 1. 00 13. 93 1. 00 14. 87 1. 00 16. 34 1. 00 18. 25 1. 00 15. 16 1. 00 16. 32 1. 00 14. 18 1. 00 13. 44	B B B B B B B B B B B B B B B B B B B	N C C C C C C C C C C C C C C C C C C C

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FIG. 4-177										
ATOM 862 ATOM 862 ATOM 862 ATOM 862 ATOM 863 ATOM 864 ATOM 865	NE ARG CZ ARG NH1 ARG NH2 ARG NH2 ARG O O ARG N PHE CA PRO	356 110.1 356 111.5 356 112.4 356 112.1 356 107.1 356 106.1 357 107.1 357 105.9 357 105.4 357 105.4 357 104.7 357 105.4 357 104.8 357 104.8 357 104.8 357 105.4 357 106.3 357 105.4 357 108.4 357 108.8 358 107.6 358 108.1 358 107.8 358 108.0 358 108.0 358 108.0 358 109.0 358 109.0 358 109.7 358 109.7 359 110.3 359 110.3 359 110.3 359 110.3 359 110.3 359 110.9 359 112.1 359 112.1 359 112.1	69 44. 878 46 45. 211 57 44. 341 56 43. 055 74 44. 765 11 45. 607 00 44. 924 40 46. 911 67 47. 603 18 48. 660 53 48. 083 67 47. 878 07 47. 136 98 46. 937 44. 259 76 48. 259 76 48. 259 76 48. 259 76 48. 259 76 48. 259 76 48. 377 48. 388 48. 377 48. 389 49. 49. 49. 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 48. 704 55. 368 66 48. 784 67 48. 916 68 48. 916 69 48. 491 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 48. 694 69 69 698	37. 151 37. 511 37. 935 38. 065 38. 242 33. 209 33. 066 32. 945 32. 402 33. 366 34. 573 35. 748 36. 867 35. 648 36. 812 31. 076 30. 287 30. 287 30. 287 30. 338 31. 362 31. 117 29. 612 29. 499 30. 559 30. 338 31. 362 31. 117 29. 875 32. 121 29. 646 30. 722 28. 473 27. 124 28. 411 26. 959 26. 229 29. 465	1. 00 14. 42 1. 00 18. 65 1. 00 20. 17 1. 00 22. 71 1. 00 18. 93 1. 00 16. 01 1. 00 16. 29 1. 00 15. 89 1. 00 16. 40 1. 00 11. 21 1. 00 8. 48 1. 00 5. 58 1. 00 8. 57 1. 00 5. 98 1. 00 4. 59 1. 00 3. 60 1. 00 18. 69 1. 00 21. 57 1. 00 19. 12 1. 00 19. 47 1. 00 19. 47 1. 00 19. 22 1. 00 19. 99 1. 00 22. 48 1. 00 24. 20 1. 00 24. 69 1. 00 24. 69 1. 00 21. 14 1. 00 24. 33 1. 00 20. 57 1. 00 22. 16 1. 00 20. 23 1. 00 20. 48 1. 00 20. 48 1. 00 19. 85 1. 00 21. 21 1. 00 20. 23 1. 00 20. 23 1. 00 20. 23 1. 00 20. 23 1. 00 20. 23 1. 00 20. 23	B B B B B B B B B B B B B B B B B B B	(Continued)  C N C N C N C C C C C C C C C C C C C			
ATOM 865 ATOM 866 ATOM 866 ATOM 866	O O PRO O N SER O CA SER O CB SER	359 112. 22 360 113. 47 360 114. 21 360 115. 12	21 50. 683 74 48. 953 12 49. 725 22 48. 806	29. 465 30. 163 31. 160 31. 968	1.00 22.01 1.00 19.33 1.00 18.75 1.00 20.74	B B B	O N C C			
ATOM 866 ATOM 867 ATOM 867 ATOM 867 ATOM 867	C SER C OSER C O	360 116.16 360 115.06 360 115.41 361 115.39 361 116.19 361 115.98 361 115.74 361 115.74	33 48. 286 50 50. 841 0 50. 806 94 51. 824 99 52. 970 32 54. 159 54 54. 007 13 53. 431 67 52. 408	31. 149 30. 560 29. 382 31. 393 30. 978 31. 919 33. 269 34. 342 34. 091	1.00 26.03 1.00 18.77 1.00 17.99 1.00 18.96 1.00 18.11 1.00 16.34 1.00 21.67 1.00 27.42 1.00 28.62 1.00 31.11	B B B B B B	O C O N C C C C			

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					FI	G. 4-	178			(Continued)
ATOM	8673	C	GLU		117. 674		31.007	1.00 16.97	В	C
ATOM ATOM	8674 8675	O N	GLU PRO		118. 118 118. 449		31.888 30.030	1.00 16.23 1.00 16.09	В	0 N
ATOM	8676	CD	PRO		118. 443		28. 817	1.00 10.09	B B	N C
ATOM	8677	CA	PRO		119.879			1.00 15.32	В	č
ATOM	8678	CB	PRO		120. 207		28. 505	1.00 13.19	B	č
ATOM	8679	CG	PRO		119.362		28.121	1.00 12.78	В	Č
ATOM	8680	C	PRO		120.601		30.832	1.00 16.34	В	C
ATOM	8681	0	PRO		120.096		31.021	1.00 17.05	В	0
ATOM	8682	N	HIS	363	121.768		31.353	1.00 17.21	В	N
ATOM	8683	CA	HIS	363	122. 550		32. 164	1.00 18.58	В	C
ATOM ATOM	8684 8685	CB CG	HIS HIS	363	122.626	53. 875	33.603	1.00 18.05	В	C
ATOM	8686		HIS	363 363	121. 324 120. 156		34. 333 34. 158	1.00 19.33	B B	C C
ATOM	8687		HIS	363	120. 130	54. 851	35. 368	1.00 19.36 1.00 18.40	В	N N
ATOM	8688		HIS	363	119.869	54. 731	35. 799	1.00 19.50	В	Č
ATOM	8689		HIS	363	119. 267	53. 798	35. 081	1.00 22.85	В	Ň
ATOM	8690	C	HIS	363	123. 942	54. 499	31.551	1.00 19.40	B	Č
ATOM	8691	0	HIS	363	124.833	53.691	31.806	1.00 19.73	B	0
ATOM	8692	N	PHE	364	124.110	55.520	30.723	1.00 19.14	В	N
ATOM	8693	CA	PHE	364	125. 371	55. 744	30.043	1.00 19.25	В	C
ATOM	8694	CB	PHE	364	125. 188	56.802	28. 944	1.00 17.71	В	C
ATOM	8695	CG	PHE	364	124. 368	56. 319	27. 777	1.00 15.99	В	C
ATOM ATOM	8696 8697		PHE PHE	364 364	122. 975	56. 339	27. 826	1.00 12.83	В	C
ATOM	8698		PHE	364 364	124. 989 122. 216	55. 770	26.656	1.00 12.86	В	C
ATOM	8699		PHE	364 364	124. 225	55. 816 55. 242	26. 781 25. 607	1.00 8.09 1.00 10.87	B B	C
ATOM	8700	CZ	PHE	364	124. 223	55. 268	25. 679	1.00 10.87	В	C C
ATOM	8701	Č	PHE	364	126. 531	56. 127	30. 942	1.00 18.72	В	Č
ATOM	8702	0	PHE	364	126. 341	56.638	32. 050	1.00 17.88	В	Ö
ATOM	8703	N	THR	365	127. 735	55.854	30.448	1.00 18.23	B	Ň
ATOM	8704	CA	THR	365	128. 967	56.178	31.159	1.00 19.73	В	C
ATOM	8705	CB	THR	365	130. 132	<b>55. 288</b>		1.00 17.73	В	C
ATOM	8706		THR	365	130. 257	55. 384	29. 275	1.00 22.16	В	0
ATOM	8707		THR	365	129. 890	53. 848		1.00 13.36	В	C
ATOM ATOM	8708 8709	C 0	THR THR	365	129.312	57. 633	30.847	1.00 20.48	В	C
ATOM	8710	N	LEU	365 366	128. 662 130. 329	58. 260	30.015	1.00 20.68	В	0
ATOM	8711	CA	LEU	366	130. 329	58. 163 59. 544	31.515 31.304	1.00 22.60 1.00 25.75	B B	N C
ATOM	8712	CB	LEU	366	132. 053	59.831	32.039	1.00 29.32	В	C C
ATOM	8713		LEU	366	132.172	59. 429	33.516	1.00 23.32	В	C
ATOM	8714		LEU	366	132.442	57. 920	33.631	1.00 33.57	В	č
ATOM	8715		LEU	366	133. 316	60. 210	34. 162	1.00 34.78	B	č
ATOM	8716	C	LEU	366	130.909	59.900	29.824	1.00 26.20	B	Č
ATOM	8717	0	LEU	366	130. 317	60.871	29.349	1.00 26.53	В	0
ATOM	8718	N	ASP	367	131.709	59. 115	29. 102	1.00 24.26	В	N
ATOM	8719	CA	ASP	367	131.964	59.369	27. 682	1.00 23.63	В	C
ATOM	8720	CB	ASP	367	133. 232	58. 636	27. 214	1.00 23.47	В	C
ATOM	8721	CG	ASP	367	133. 230	57. 158	27. 582	1.00 25.27	В	C

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										(Continued)
					FI	G. 4-	179			(Continueu)
	0500	001	4.00	0.05	100 150	E0 E1E	00.500	1 00 04 05	n	0
ATOM	8722		ASP	367	132. 158		27. 507	1.00 24.35	В	0
ATOM	8723		ASP	367	134. 311	56. 634	27. 935	1.00 25.99	В	0
ATOM	8724	C	ASP	367	130. 810		26. 767	1.00 22.76	В	C
ATOM	8725	0	ASP	367	130. 848		25. 568	1.00 24.31	В	0 N
ATOM	8726	N	GLY	368	129. 795		27. 330	1.00 20.91	В	N
ATOM	8727	CA	GLY	368	128.646		26. 547	1.00 18.80	В	C
ATOM	8728	C	GLY	368	128. 912	56. 843	25. 550	1.00 19.81	В	C
ATOM	8729	0	GLY	368	128. 059	56. 563	24. 700	1.00 19.55	В	0 N
ATOM	8730	N	ASN	369	130.073		25.643	1.00 19.20	В	N C
ATOM	8731	CA	ASN	369	130. 398		24. 706	1.00 19.60	В	C
ATOM	8732	CB	ASN	369	131.907		24. 526	1.00 19.65	В	C
ATOM	8733	CG	ASN	369	132. 519	56. 217	23. 921	1.00 21.94	В	C
ATOM	8734		ASN ASN	369	132.005	56. 757	22. 945	1.00 25.32	В	0
ATOM	8735			369	133.628	56.671	24. 489	1.00 23.16	В	N C
ATOM	8736	C	ASN	369	129.828	53. 760	25.090	1.00 18.53 1.00 18.17	В	C
ATOM	8737	0 N	ASN	369	129.770	52. 861	24. 258		В	0 N
ATOM ATOM	8738 8739	N CA	SER SER	370 370	129. 420 128. 847	53. 608 52. 347	26. 346 26. 812	1.00 18.61 1.00 19.50	В	N C
ATOM	8740	CB	SER	370	129. 934	51. 447	27. 430	1.00 19.50	В	C
ATOM	8741	OG	SER	370	130. 577	52. 057	28. 538	1.00 20.45	B B	C 0
ATOM	8742	C	SER	370	127. 746	52. 621	26. 536 27. 829	1.00 22.81	В	C
ATOM	8743	Ö	SER	370	127. 562	53. 759	28. 261	1.00 18.93	В	0
ATOM	8744	N	PHE	371	127. 009	51. 583	28. 209	1.00 19.22	В	N
ATOM	8745	CA	PHE	371	125. 931	51.763	29. 168	1.00 18.66	В	C
ATOM	8746	CB	PHE	371	124. 762	52. 516	28. 512	1.00 19.79	В	C
ATOM	8747		PHE	371	124. 088	51.756	27. 398	1.00 15.75	В	C
ATOM	8748		PHE	371	124. 532	51.874	26.093	1.00 15.63	В	C
ATOM	8749		PHE	371	122.991	50. 940	27.660	1.00 17.78	В	Č
ATOM	8750		PHE	371	123. 893	51.198	25.059	1.00 18.99	В	Č
ATOM	8751		PHE	371	122. 340	50. 255	26. 631	1.00 18.61	В	Č
ATOM	8752	CZ	PHE	371	122. 792	50. 386	25. 327	1.00 18.10	В	č
ATOM	8753	Č	PHE	371	125. 402	50.473	29. 784	1.00 18.78	В	č
ATOM	8754	Ŏ	PHE	371	125. 506	49. 392	29. 197	1.00 17.45	B	ŏ
ATOM	8755	Ň	TYR	372	124. 814	50.614	30. 970	1.00 19.00	В	Ň
ATOM	8756	CA	TYR	372	124. 240	49. 491	31. 703	1.00 18.59	B	Ċ
ATOM	8757	CB	TYR	372	124.697	49. 527	33. 159	1.00 17.86	B	č
ATOM	8758	CG	TYR	372	126. 199	49.500	33. 290	1.00 17.83	B	Č
ATOM	8759		TYR	372	126.951	50.676	33. 201	1.00 19.52	B	Č
ATOM	8760		TYR	372	128. 339	50.651	33. 257	1.00 18.29	В	Č
ATOM	8761		TYR	372	126.878	48. 296	33. 441	1.00 17.45	В	Č
ATOM	8762		TYR	372	128. 266	48.257	33. 498	1.00 18.99	В	C
ATOM	8763	CZ	TYR	372	128.991	49.434	33.405	1.00 18.83	В	C
ATOM	8764	OH	TYR	372	130.364	49.387	33. 454	1.00 19.89	В	0
ATOM	8765	С	TYR	372	122.727	49. 558	31.620	1.00 18.38	В	C
ATOM	8766	0	TYR	372	122.143	50.632	31.717	1.00 20.19	В	0
ATOM	8767	N	LYS	373	122.096	48.406	31.436	1.00 19.10	В	N
ATOM	8768	CA	LYS	373	120.647	48.340	31.299	1.00 18.51	В	C
ATOM	8769	CB	LYS	373	120. 285	48. 376	29.809	1.00 17.90	В	С
ATOM	8770	CG	LYS	373	118.809	48. 581	29. 485	1.00 21.01	В	C

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										(Continued)
					FI	G. 4-	180			
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8771 8772 8773 8774 8775 8776 8777 8778 8779 8780 8781	CG1 CD1 C	LYS LYS LYS LYS LYS ILE ILE ILE ILE ILE	373 373 373 373 374 374 374 374 374 374	118. 593 117. 248 116. 053 120. 128 120. 695 119. 056 118. 474 117. 557 116. 955 118. 348 117. 517	48. 627 49. 238 48. 389 47. 049 45. 980 47. 150 45. 972 46. 339 45. 076 47. 101 47. 505 45. 244	27. 969 27. 563 27. 855 31. 928 31. 712 32. 709 33. 332 34. 526 35. 130 35. 591 36. 809 32. 303	1.00 21.40 1.00 21.67 1.00 21.98 1.00 18.77 1.00 18.48 1.00 17.06 1.00 15.88 1.00 14.58 1.00 12.18 1.00 15.07 1.00 13.03 1.00 16.94	B B B B B B B B B B B B B B B B B B B	C C N C O N C C C C C
ATOM ATOM	8783 8784	O N	ILE ILE	$\begin{array}{c} 374 \\ 375 \end{array}$	116. 649 117. 977	45. 803 44. 008	31. 795 31. 978	1.00 17.41 1.00 18.50	B B	0 N
ATOM	8785	CA	ILE	375	117. 178	43. 226	31.033	1.00 19.71	В	C
ATOM ATOM	8786 8787	CB CG2	ILE ILE	375 375	117. 842 118. 128	43.117 44.496	29. 625 29. 070	1.00 19.62 1.00 19.13	B B	C C
ATOM	8788	CG1	ILE	375	119. 128	42. 298	29.706	1.00 21.23	В	C
ATOM ATOM	8789 8790	CD1 C	ILE ILE	375 375	119. 824 116. 984	42. 129 41. 815	28. 373 31. 579	1.00 23.06 1.00 20.44	B B	C C
ATOM	8791	0	ILE	375	117. 735	41.356	32. 443	1.00 20.03	В	0
ATOM ATOM	8792 8793	N CA	SER SER	376 276	115.968	41.128	31.078	1.00 21.14	В	N
ATOM	8794	CB	SER	376 376	115. 705 114. 347	39. 771 39. 318	31.516 31.003	1.00 21.95 1.00 21.55	B B	C C
ATOM	8795	0G	SER	376	114.026	38. 054	31. 539	1.00 25.40	В	ŏ
ATOM	8796	C	SER	376	116.808	38. 899	30.936	1.00 23.06	В	C
ATOM	8797	0 N	SER	376	117. 236	39.127	29. 807	1.00 24.16	В	0
ATOM ATOM	8798 8799	N CA	ASN ASN	377 377	117. 281 118. 358	37. 914 37. 053	31. 698 31. 218	1.00 24.67	В	N
ATOM	8800	CB	ASN	377	119. 438	36. 891	32. 302	1.00 25.07 1.00 23.49	B B	C C
ATOM	8801	CG	ASN	377	119.010	35. 971	33. 444	1.00 23.45	В	C
ATOM	8802		ASN	377	117. 951	35. 340	33. 397	1.00 23.70	B	ŏ
ATOM	8803		ASN	377	119. 848	35.884	34. 474	1.00 20.11	В	N
ATOM	8804	C	ASN	377	117. 897	35. 681	30. 736	1.00 26.79	В	C
ATOM ATOM	8805 8806	O N	ASN GLU	377 378	116. 706	35.382	30. 699	1.00 28.58	В	0
ATOM	8807	CA	GLU	378	118. 861 118. 608	34. 856 33. 504	30. 353 29. 871	1.00 29.97 1.00 33.15	B B	N C
ATOM	8808	CB	GLU	378	119. 914	32.716	29.870	1.00 33.13	В	C
ATOM	8809	ČĞ	GLU	378	120. 695	32.870	31. 181	1.00 43.78	В	č
ATOM	8810	CD	GLU	378	121.681	31.740	31.427	1.00 46.56	В	Č
ATOM	8811	0E1		378	121. 225	30.613	31.725	1.00 47.52	В	0
ATOM	8812	0E2		378	122. 906	31.981	31. 321	1.00 47.91	В	0
ATOM ATOM	8813 8814	C 0	GLU GLU	378 378	117. 588 116. 685	32.760	30. 722	1.00 33.63	В	C
ATOM	8815	N	GLU	379	117. 740	32. 113 32. 842	30. 192 32. 041	1.00 35.16 1.00 32.70	B B	O N
ATOM	8816	CA	GLU	379	116. 831	32.160	32. 953	1.00 32.10	В	Č
ATOM	8817	CB	GLU	379	117. 549	31.806	34. 256	1.00 34.46	B	č
ATOM	8818	CC	GLU	379	117. 845	30. 323	34.412	1.00 39.45	В	C
ATOM	8819	CD	GLU	379	116.577	29. 475	34. 492	1.00 43.32	В	С

										(Continued)
					FIC	G. 4	181			(Continued)
45014	0000	05.	· 01 11	0.50	115 000	00.040			_	
ATOM	8820		GLU		115.800			1.00 42.91	В	0
ATOM	8821		2 GLU		116.357			1.00 45.81	В	0
ATOM	8822 8823	C	GLU		115.588			1.00 28.15	В	C
ATOM		0	GLU		114. 743			1.00 28.12	В	0
ATOM ATOM	8824 8825	N CA	GLY GLY		115.473			1.00 24.72	В	N
ATOM	8826	CA	GLY	380 380	114.304 114.335		32.886	1.00 22.38	В	C
ATOM	8827	Ö	GLY	380 380	113. 302	35. 891 36. 404	34. 101 34. 514	1.00 21.23	В	C
ATOM	8828	N	TYR	381	115.507	36. 084	34. 689	1.00 21.76 1.00 20.24	B B	0 N
ATOM	8829	CA	TYR	381	115.642	36. 963	35.842	1.00 20.24	В	N C
ATOM	8830	CB	TYR	381	116.539	36. 307	36.884	1.00 19.32	В	C
ATOM	8831	CG	TYR	381	115.846	35. 194	37. 630	1.00 20.98	В	C
ATOM	8832		TYR	381	115.104	35. 465	38. 781	1.00 23.80	В	C
ATOM	8833		TYR	381	114.435	34. 458	39. 455	1.00 23.01	В	Č
ATOM	8834		TYR	381	115.900	33. 876	37. 171	1.00 22.34	В	Č
ATOM	8835		TYR	381	115. 232	32. 859	37. 843	1.00 22.55	В	č
ATOM	8836	CZ	TYR	381	114.501	33. 161	38.986	1.00 24.14	В	č
ATOM	8837	OH	TYR	381	113.830	32.170	39.667	1.00 25.04	B	ŏ
ATOM	8838	C	TYR	381	116.237	38. 292	35.374	1.00 19.14	B	Č
ATOM	8839	0	TYR	381	117.178	38.312	34.568	1.00 18.95	B	0
ATOM	8840	N	ARG	382	115.689	39. 399	35.871	1.00 15.40	B	N
ATOM	8841	CA	ARG	382	116.160	40.715	35.458	1.00 14.04	В	Č
ATOM	8842	CB	ARG	382	115.035	41.738	35.622	1.00 13.48	В	C
ATOM	8843	CG	ARG	382	113. 948	41.478	34.606	1.00 15.55	В	C
ATOM	8844	CD	ARG	382	112.581	42.001	34.993	1.00 17.88	В	C
ATOM	8845	NE	ARG	382	111.576	41.337	34. 170	1.00 19.19	В	N
ATOM	8846	CZ	ARG	382	111.438	41.515	32.859	1.00 21.25	В	C
ATOM	8847		ARG	382	112. 230	42. 357	32. 203	1.00 18.86	В	N
ATOM	8848		ARG	382	110.534	40.810	32. 190	1.00 23.20	В	N
ATOM ATOM	8849 8850	C 0	ARG	382	117. 438	41. 172	36. 140	1.00 12.33	В	C
ATOM	8851	N	ARG HIS	382 383	117.497	41.376	37. 349	1.00 9.83	В	0
ATOM	8852	CA	HIS	383	118.474	41. 303	35. 323	1.00 11.97	В	N
ATOM	8853	CB	HIS	383	119.778 120.714	41. 711 40. 516	35. 789	1.00 12.81	В	C
ATOM	8854	CG	HIS	383	120. 714	39. 496	35. 777 36. 813	1.00 12.29 1.00 13.83	В	C
ATOM	8855		HIS	383	119. 726	38. 313	36. 721	1.00 13.65	В	C
ATOM	8856		HIS	383	120.670	39. 675	38. 148	1.00 12.09	B B	C N
ATOM	8857		HIS	383	120. 212	38. 643	38. 834	1.00 16.23	В	C
ATOM	8858		HIS	383	119.635	37. 803	37. 993	1.00 10.25	В	N
ATOM	8859	C	HIS	383	120. 351	42.830	34. 949	1.00 14.04	В	Č
ATOM	8860	0	HIS	383	119. 788	43. 207	33. 913	1.00 15.53	В	Ö
ATOM	8861	N	ILE	384	121.476	43. 354	35. 412	1.00 13.75	В	N
ATOM	8862	CA	ILE	384	122.166	44. 444	34. 749	1.00 15.78	. B	Ç
ATOM	8863	CB	ILE	384	122.996	45. 223	35.782	1.00 14.50	B	č
ATOM	8864	CG2		384	123. 765	46. 338	35. 103	1.00 14.15	В	Č
ATOM	8865	CG1		384	122.071	45. 767	36.871	1.00 12.97	В	Č
ATOM	8866	CD1		384	122. 791	46. 194	38. 129	1.00 14.46	В	C
ATOM	8867	C	ILE	384	123. 082	43. 925		1.00 18.38	В	С
ATOM	8868	0	ILE	384	123.884	43.014	33. 874	1.00 20.02	В	0

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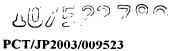
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					(Continued)
				FIG. 4-183	(Continued)
4.0004	0010	00 401		100 F76 F1 416 17 016 1 00 40 16 D	0
ATOM ATOM	8918 8919	CG ASI		130. 576 51. 416 17. 816 1. 00 49. 16 B 129. 879 51. 713 16. 819 1. 00 50. 13 B	C 0
ATOM	8920	OD1 AS1		131. 349 52. 227 18. 372 1. 00 50. 30 B	0
ATOM	8921	C ASI		128. 887 48. 106 18. 675 1. 00 44. 93 B	č
ATOM	8922	0 ASI		128.589 47.557 17.619 1.00 47.19 B	ŏ
ATOM	8923	N LYS		129.081 47.427 19.798 1.00 45.32 B	N
ATOM	8924	CA LYS	391	128.967 45.977 19.826 1.00 45.91 B	C
ATOM	8925	CB LYS		129. 981 45. 409 20. 818 1. 00 47. 86 B	C
ATOM	8926	CG LYS		131. 416 45. 724 20. 407 1. 00 51. 34 B	C
ATOM	8927	CD LYS		132. 428 45. 397 21. 494 1. 00 55. 03 B	C
ATOM	8928	CE LYS		133.816 45.911 21.112 1.00 55.62 B	C
ATOM ATOM	8929 8930	NZ LYS		134. 822 45. 719 22. 192 1. 00 56. 68 B 127. 550 45. 535 20. 163 1. 00 45. 76 B	N C
ATOM	8931	0 LYS		126. 857 46. 191 20. 942 1. 00 46. 28 B	0
ATOM	8932	N LYS		127. 125 44. 419 19. 576 1. 00 44. 97 B	N N
ATOM	8933	CA LYS		125. 772 43. 916 19. 782 1. 00 45. 02 B	Ċ
ATOM	8934	CB LYS		125. 218 43. 382 18. 458 1. 00 46. 84 B	č
ATOM	8935	CG LYS		124.750 44.494 17.529 1.00 49.00 B	Č
ATOM	8936	CD LYS		124. 282 43. 970 16. 186 1. 00 50. 10 B	C
ATOM	8937	CE LYS		123. 533 45. 057 15. 436 1. 00 51. 49 B	C
ATOM	8938	NZ LYS		124. 298 46. 338 15. 419 1. 00 52. 49 B	N
ATOM	8939	C LYS		125. 529 42. 895 20. 886 1. 00 43. 84 B	C
ATOM	8940	O LYS		124. 386 42. 512 21. 134 1. 00 44. 15 B	0
ATOM ATOM	8941 8942	N ASP CA ASP		126. 579 42. 446 21. 555 1. 00 41. 92 B 126. 381 41. 489 22. 632 1. 00 40. 21 B	N
ATOM	8943	CB ASP		126. 381 41. 489 22. 632 1. 00 40. 21 B 127. 289 40. 268 22. 470 1. 00 41. 22 B	C C
ATOM	8944	CG ASP		127. 022 39. 509 21. 194 1. 00 41. 43 B	Č
ATOM	8945	OD1 ASP		125. 838 39. 350 20. 824 1. 00 40. 27 B	Õ
ATOM	8946	OD2 ASP		128.005 39.062 20.569 1.00 43.49 B	Ö
ATOM	8947	C ASP		126. 685 42. 158 23. 953 1. 00 38. 67 B	Č
ATOM	8948	0 ASP		127. 818 42. 588 24. 188 1. 00 39. 07 B	0
ATOM	8949	N CYS		125. 678 42. 252 24. 816 1. 00 35. 47 B	N
ATOM	8950	CA CYS		125. 882 42. 870 26. 117 1. 00 32. 02 B	C
ATOM	8951	C CYS		126.374 41.796 27.069 1.00 29.62 B	C
ATOM ATOM	8952	O CYS		126. 248 40. 608 26. 787 1. 00 29. 41 B	0
ATOM	8953 8954	CB CYS		124.586 43.491 26.639 1.00 31.92 B 123.354 42.328 27.301 1.00 33.67 B	C
ATOM	8955	N THR		123. 354 42. 328 27. 301 1. 00 33. 67 B 126. 938 42. 215 28. 193 1. 00 26. 53 B	S N
ATOM	8956	CA THR		127. 462 41. 279 29. 171 1. 00 23. 76 B	C
ATOM	8957	CB THR		128.964 41.493 29.358 1.00 23.30 B	Č
ATOM	8958	OG1 THR		129.627 41.265 28.115 1.00 25.56 B	ŏ
ATOM	8959	CG2 THR		129.518 40.542 30.397 1.00 22.48 B	Č
ATOM	8960	C THR		126. 784 41. 448 30. 519 1. 00 22. 20 B	С
ATOM	8961	0 THR		126.707 42.556 31.035 1.00 23.25 B	0
ATOM	8962	N PHE		126.300 40.354 31.095 1.00 19.02 B	N
ATOM	8963	CA PHE		125. 658 40. 444 32. 396 1. 00 18. 94 B	C
ATOM ATOM	8964 8965	CB PHE		124.794 39.206 32.652 1.00 17.62 B	C
ATOM	8966	CD1 PHE		123. 486 39. 225 31. 918 1. 00 19. 32 B 122. 477 40. 112 32. 290 1. 00 20. 73 B	C C
111 0111	0000	ODI TIII	000	144.7(( 70.114 04.430 1.00 40.(0 D	U

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										(Continued)
					FI	G. 4	184			(Continued)
ATOM	8967	<b>ር</b> ከን	PHE	396	123. 265	38. 378	30. 837	1.00 19.67	В	C ·
ATOM	8968		PHE	396	123. 267		31. 593	1.00 13.07	В	č
ATOM	8969		PHE	396	122. 062		30. 130	1.00 20.02	В	č
ATOM	8970	CZ	PHE	396	121.057		30. 507	1.00 22.36	B	Č
ATOM	8971	Ċ	PHE	396	126. 712		33. 488	1.00 19.09	В	Č
ATOM	8972	0	PHE	396	127. 703		33.516	1.00 21.70	В	0
ATOM	8973	N	ILE	397	126. 511	41.559	34.380	1.00 17.18	В	N
ATOM	8974	CA	ILE	397	127. 454		35.460	1.00 14.91	В	C
ATOM	8975	CB	ILE	397	127. 819	43. 240	35.566	1.00 14.47	В	C
ATOM	8976		ILE	397	128. 181	43. 762	34. 192	1.00 14.09	В	C
ATOM	8977		ILE	397	126. 644		36. 135	1.00 13.14	В	C
ATOM	8978	CD1		397	126. 993	45. 472	36. 449	1.00 11.32	В	C
ATOM	8979	C	ILE	397	126. 885	41. 287	36. 791	1.00 16.82	В	C
ATOM	8980	0	ILE	397	127. 543	41.376	37. 833	1.00 18.48	В	0
ATOM ATOM	8981 8982	N CA	THR THR	398 398	125.651 125.000	40. 790 40. 241	36. 753 37. 937	1.00 15.47	B B	N C
ATOM	8983	CB	THR	398	123.000	41. 255	38. 652	1.00 14.86 1.00 14.72	В	C C
ATOM	8984	0G1	THR	398	122. 968	41. 627	37. 784	1.00 14.72	В	0
ATOM	8985	CG2		398	124. 812	42. 476	39. 083	1.00 13.33	В	C
ATOM	8986	C	THR	398	124. 185	39. 040	37. 490	1.00 15.72	В	Č ·
ATOM	8987	Ŏ	THR	398	123. 805	38. 942	36. 323	1.00 15.48	B	ŏ
ATOM	8988	Ň	LYS	399	123. 915	38. 127	38. 416	1.00 17.12	B	Ň
ATOM	8989	CA	LYS	399	123.147	36.935	38.094	1.00 18.19	В	Ċ
ATOM	8990	CB	LYS	399	124.026	35.960	37. 314	1.00 20.96	В	C
ATOM	8991	CG	LYS	399	125. 322	35.630	38. 023	1.00 24.93	В	C
ATOM	8992	CD	LYS	399	125.970	34. 380	37. 458	1.00 29.93	В	C
ATOM	8993	CE	LYS	399	127. 055	33.860	38. 402	1.00 32.81	В	C
ATOM	8994	NZ	LYS	399	128.082	34. 904	38. 703	1.00 34.86	В	N
ATOM	8995	C	LYS	399	122.616	36. 259	39. 354	1.00 17.75	В	C
ATOM	8996 8997	0 N	LYS	399	123. 041	36. 571	40. 465	1.00 18.35	В	0
ATOM ATOM	8998	N CA	GLY GLY	400 400	121.684	35. 331	39. 181	1.00 16.55	В	N
ATOM	8999	C	GLY	400	121. 131 119. 616	34. 640 34. 629	40. 327	1.00 17.62	В	C
ATOM	9000	Õ	GLY	400	118. 979	35. 360	40. 320 39. 551	1.00 19.66 1.00 22.36	B B	C 0
ATOM	9001	Ň	THR	401	119. 028	33. 797	41. 172	1.00 22.30	В	N
ATOM	9002	ĊA	THR	401	117. 582	33. 708	41. 227	1.00 17.93	В	C
ATOM	9003	CB	THR	401	117. 125	32. 323	41.700	1.00 17.98	В	č
ATOM	9004	0G1	THR	401	117.653	32.056	43.004	1.00 20.05	В	ŏ
ATOM	9005	CG2	THR	401	117.607	31.267	40. 730	1.00 13.15	B	č
ATOM	9006	C	THR	401	117.013	34. 785	42.125	1.00 16.85	B	Č
ATOM	9007	0	THR	401	116.478	34.519	43. 192	1.00 18.14	В	0
ATOM	9008	N	TRP	402	117. 155	36.013	41.659	1.00 16.42	В	N
ATOM	9009	CA	TRP	402	116.671	37. 199	42. 335	1.00 14.66	В	C
ATOM	9010	CB	TRP	402	117. 528	37. 503	43. 561	1.00 16.17	В	C
ATOM	9011	CG	TRP	402	119.001	37. 502	43. 296	1.00 16.85	В	C
ATOM ATOM	9012 9013		TRP	402	119. 793	38.614	42.861	1.00 17.78	В	C
ATOM	9013		TRP TRP	402 402	121. 131	38. 164	42. 771 42. 542	1.00 18.27	В	C
ATOM	9015		TRP	402 402	119. 504 119. 859	39. 948 36. 453	42. 542 43. 440	1. 00 18. 13 1. 00 16. 20	B B	C C
111 Ou	2010	ועט	iiu	104	113.003	00.400	70.770	1.00 10.20	D	U



				FΙ	G. 4	- 185	;		(Continued)	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9016 9017 9018 9019 9020 9021 9022 9023 9024 9025 9026 9027 9028 9030 9031 9032 9033 9034 9035 9036 9037 9038 9039 9040 9041 9042 9043 9044 9045 9046 9047 9048	CZ2 11 CZ3 17 CH2 17 C	IRP 402 IRP 402 IRP 402 IRP 402 IRP 402 IRP 403 ILU 404 ILU 404 ILU 404 ILU 404 ILU 405	2 121. 143 122. 180 120. 553 121. 874 116. 823 117. 433 116. 303 116. 368 114. 990 114. 408 113. 397 116. 852 117. 322 117. 800 118. 926 119. 374 120. 096 116. 129 116. 129 116. 129 116. 129 116. 125 117. 368 117. 368 118. 926 119. 374 120. 096 116. 129 116. 129 116. 129 116. 129 116. 125 117. 368	3 36. 842 39. 003 40. 784 40. 303 7 38. 280 39. 480 8 40. 554 40. 703 8 39. 396 7 40. 306 8 41. 938 42. 301 42. 716 44. 420 45. 859 43. 484 44. 994 45. 105 45. 653 46. 540 47. 020 47. 763 45. 824	43. 130 42. 378 42. 151 42. 075 41. 273 40. 229 41. 534 40. 548 39. 899 39. 398 38. 391 38. 713 37. 271	1.00 18.41 1.00 16.56 1.00 18.56 1.00 17.33 1.00 14.94 1.00 14.00	B B B B B B B B B B B B B B B B B B B	(Continued)  N C C C C C C C C C C C C C C C C C C	
ATOM ATOM	9049 9050	N II	LY 406 LE 407	118. 858 118. 806	49. 708 50. 618	40. 737 38. 691	1.00 16.89 1.00 14.84	B B	O N	
ATOM ATOM ATOM ATOM	9051 9052 9053 9054		LE 407 LE 407 LE 407 LE 407	120. 161 120. 797 122. 039 121. 163	51. 144 51. 192 52. 077 49. 768	38. 760 37. 361 37. 373 36. 936	1.00 13.37 1.00 11.30 1.00 11.29 1.00 9.82	B B B	C C C	
ATOM ATOM ATOM ATOM	9055 9056 9057 9058	CD1 II C II O II N GI	LE 407 LE 407 LE 407 LU 408	121. 237 119. 991 119. 236 120. 692	49. 545 52. 546 53. 361 52. 825	35. 446 39. 343 38. 819 40. 431	1.00 9.37 1.00 15.02 1.00 14.39 1.00 16.63	B B B B	C C C O N	
ATOM ATOM ATOM ATOM ATOM	9059 9060 9061 9062 9063	CA GL CB GL CG GL CD GL	LU 408 LU 408 LU 408	120. 552 120. 373 119. 290 117. 916	54. 105 53. 849 52. 815 53. 275	41. 105 42. 601 42. 906 42. 456	1. 00 18. 23 1. 00 21. 53 1. 00 23. 80 1. 00 27. 87	B B B	C C C	
ATOM ATOM	9064	OE1 GL OE2 GL		117. 135 117. 612	52. 429 54. 483	41.967 42.598	1.00 30.29 1.00 29.06	B B	0	

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				(Continued)
			FIG. 4-186	(002202220000)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9065 C GL 9066 O GL 9067 N AL 9068 CA AL 9069 CB AL 9070 C AL 9071 O AL 9072 N LE 9073 CA LE 9074 CB LE 9075 CG LE 9076 CD1 LE 9077 CD2 LE 9078 C LE 9079 O LE 9080 N TH	U 408 A 409 A 409 A 409 A 409 U 410	F I G. 4 - 1 8 6  121. 687 55. 094 40. 888 1. 00 19. 22 B 121. 468 56. 306 40. 924 1. 00 21. 06 B 122. 899 54. 589 40. 678 1. 00 18. 36 B 124. 048 55. 463 40. 473 1. 00 17. 37 B 124. 533 56. 012 41. 816 1. 00 16. 78 B 125. 189 54. 756 39. 755 1. 00 17. 45 B 125. 323 53. 536 39. 834 1. 00 15. 91 B 126. 009 55. 545 39. 062 1. 00 17. 35 B 127. 140 55. 034 38. 311 1. 00 17. 53 B 126. 722 54. 817 36. 857 1. 00 16. 60 B 127. 767 54. 292 35. 862 1. 00 18. 12 B 128. 278 52. 914 36. 302 1. 00 16. 12 B 127. 144 54. 224 34. 467 1. 00 14. 82 B 128. 356 55. 969 38. 356 1. 00 18. 72 B 128. 228 57. 175 38. 190 1. 00 20. 28 B 129. 532 55. 396 38. 589 1. 00 18. 37	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9080 N 1HI 9081 CA THI 9082 CB THI 9083 OG1 THI 9084 CG2 THI 9085 C THI 9086 O THI 9087 N SEI 9088 CA SEI 9089 CB SEI 9090 OG SEI 9091 C SEI	R 411 R 411 R 411 R 411 R 411 R 411 R 412 R 412 R 412 R 412	129.532       55.396       38.589       1.00 18.37       B         130.786       56.142       38.617       1.00 19.27       B         131.360       56.286       40.060       1.00 18.85       B         131.869       55.024       40.514       1.00 17.72       B         130.284       56.764       41.012       1.00 17.11       B         131.744       55.293       37.784       1.00 20.67       B         131.374       54.200       37.357       1.00 23.60       B         132.961       55.772       37.543       1.00 21.07       B         133.912       54.988       36.753       1.00 21.08       B         135.124       55.827       36.365       1.00 18.37       B         135.926       56.086       37.496       1.00 21.11       B         134.387       53.778       37.548       1.00 22.07       B	N C C C C O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9092 0 SEH 9093 N ASH 9094 CA ASH 9095 CB ASH 9096 CG ASH 9097 OD1 ASH 9098 OD2 ASH 9099 C ASH 9100 O ASH 9101 N TYR 9102 CA TYR 9103 CB TYR 9104 CG TYR 9105 CD1 TYR	P 413 P 413 P 413 P 413 P 413 P 413 P 413 P 414 R 414 R 414	134. 961       52. 843       36. 995       1. 00       23. 13       B         134. 144       53. 790       38. 850       1. 00       22. 17       B         134. 581       52. 677       39. 673       1. 00       22. 98       B         135. 339       53. 198       40. 895       1. 00       25. 67       B         136. 731       53. 697       40. 548       1. 00       28. 45       B         137. 338       54. 395       41. 389       1. 00       31. 52       B         137. 228       53. 385       39. 444       1. 00       29. 95       B         133. 446       51. 777       40. 123       1. 00       22. 23       B         133. 624       50. 565       40. 248       1. 00       22. 67       B         132. 274       52. 362       40. 351       1. 00       21. 41       B         131. 138       51. 575       40. 819       1. 00       18. 45       B         132. 101       51. 708       42. 329       1. 00       15. 46       B         132. 118       49. 699       43. 357       1. 00       14. 59       B	0 N C C C O O C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9106 CE1 TYR 9107 CD2 TYR 9108 CE2 TYR 9109 CZ TYR 9110 OH TYR 9111 C TYR 9112 O TYR 9113 N LEU	R 414 R 414 R 414 R 414 R 414 R 414	132. 113       43. 033       40. 133       44. 159       1. 00 16. 87       B         133. 093       51. 850       43. 718       1. 00 14. 91       B         134. 071       51. 282       44. 512       1. 00 16. 48       B         134. 066       49. 921       44. 733       1. 00 16. 25       B         135. 030       49. 369       45. 541       1. 00 19. 68       B         129. 787       51. 898       40. 214       1. 00 17. 91       B         129. 547       52. 990       39. 693       1. 00 17. 06       B         128. 901       50. 917       40. 323       1. 00 16. 46       B	C C C C O C O N

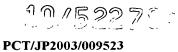


					FIG. 4-187	(Continued)
4004	0114			445	107 507 51 007 00 077 1 07 1	
ATOM ATOM	9114 9115	CA CB		415 415	127. 537 51. 027 39. 855 1. 00 14. 70 B 127. 297 50. 040 38. 714 1. 00 13. 43 B	C
ATOM	9116	CG		415	107 004 70 107 07 110	C
ATOM	9117		1 LEU			C
ATOM	9118		2 LEU	415	126. 044 49. 620 36. 619 1. 00 16. 33 B 124. 899 49. 295 38. 852 1. 00 15. 41 B	C C
ATOM	9119	Č	LEU	415	126. 674 50. 668 41. 066 1. 00 15. 33 B	Č
ATOM	9120	Õ	LEU	415	126.777 49.566 41.601 1.00 16.82 B	ő
ATOM	9121	N	TYR	416	125.840 51.595 41.519 1.00 15.16 B	N
ATOM	9122	CA		416	124. 988 51. 313 42. 663 1. 00 14. 80 B	Ċ
ATOM	9123	CB		416	124. 879 52. 530 43. 566 1. 00 13. 44 B	Ċ
ATOM	9124	CG		416	126. 201 52. 997 44. 105 1. 00 15. 38 B	C
ATOM	9125		1 TYR	416	127. 031 53. 835 43. 350 1. 00 14. 10 B	C C C
ATOM	9126		1 TYR	416	128. 240 54. 306 43. 866 1. 00 14. 05 B	C
ATOM ATOM	9127 9128		2 TYR 2 TYR	416 416	126. 618 52. 630 45. 386 1. 00 14. 93 B	C
ATOM	9129	CZ	TYR	416	127. 823 53. 094 45. 910 1. 00 15. 55 B 128. 625 53. 938 45. 147 1. 00 15. 00 B	C
ATOM	9130	OH	TYR	416	128. 625 53. 938 45. 147 1. 00 15. 00 B 129. 766 54. 466 45. 699 1. 00 14. 00 B	C 0
ATOM	9131	C	TYR	416	123. 604 50. 905 42. 208 1. 00 16. 12 B	C
ATOM	9132	Ŏ	TYR	416	123. 041 51. 511 41. 296 1. 00 16. 07 B	0
ATOM	9133	N	TYR	417	123.054 49.878 42.848 1.00 16.79 B	N
ATOM	9134	CA	TYR	417	121.730 49.407 42.482 1.00 18.72 B	Č
ATOM	9135	CB	TYR	417	121.840 48.361 41.365 1.00 20.47 B	Č
ATOM	9136	CG	TYR	417	122.456 47.039 41.788 1.00 21.65 B	C
ATOM	9137		TYR	417	121.656 45.983 42.226 1.00 22.60 B	C
ATOM	9138		TYR	417	122. 217 44. 760 42. 612 1. 00 22. 32 B	C
ATOM ATOM	9139 9140		TYR	417	123. 835 46. 843 41. 748 1. 00 21. 40 B	C
ATOM	9141	CZ	TYR	417 417	124.404 45.626 42.135 1.00 21.84 B	C
ATOM	9142	OH	TYR	417	123.588 44.590 42.565 1.00 22.22 B 124.139 43.386 42.950 1.00 22.23 B	C
ATOM	9143	C	TYR	417	100 000	0 C
ATOM	9144	ŏ	TYR	417	120. 973 48. 824 43. 667 1. 00 18. 97 B 121. 523 48. 640 44. 746 1. 00 18. 94 B	0
ATOM	9145	Ň	ILE	418	119.695 48.551 43.453 1.00 19.05 B	N ·
ATOM	9146	CA	ILE	418	118.857 47.971 44.485 1.00 20.55 B	C
ATOM	9147	CB	ILE	418	117.677 48.906 44.840 1.00 19.77 B	č
ATOM	9148		ILE	418	116. 692 48. 187 45. 742 1. 00 20. 86 B	Č
ATOM	9149		ILE	418	118. 210 50. 148 45. 551 1. 00 20. 46 B	С
ATOM	9150		ILE	418	117. 183 51. 211 45. 792 1. 00 23. 81 B	С
ATOM ATOM	9151	C	ILE	418	118. 337 46. 651 43. 947 1. 00 20. 17 B	С
ATOM	9152 9153	O N	ILE SER	418	118.011 46.546 42.767 1.00 21.74 B	0
ATOM	9154	CA	SER	419 419	118. 272 45. 642 44. 808 1. 00 19. 61 B 117. 798 44. 327 44. 396 1. 00 18. 91 B	N
ATOM	9155	CB	SER	419	110 000 10 100	C
ATOM	9156	0G	SER	419	118. 969 43. 480 43. 923 1. 00 17. 21 B 119. 797 43. 183 45. 030 1. 00 19. 02 B	C
ATOM	9157	Č	SER	419	117. 155 43. 632 45. 578 1. 00 18. 48 B	0 C
ATOM	9158	0	SER	419	117. 216 44. 131 46. 699 1. 00 19. 32 B	0
ATOM	9159	N	ASN	420	116. 536 42. 481 45. 326 1. 00 17. 64 B	N
ATOM	9160	CA	ASN	420	115.913 41.716 46.395 1.00 16.73 B	Č
ATOM	9161	CB	ASN	420	114.448 41.406 46.067 1.00 13.22 B	Č
ATOM	9162	CG	ASN	420	114. 279 40. 740 44. 724 1. 00 13. 67 B	С

FIG. 4-188										
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9163 9164 9165 9166 9167 9168 9169 9170 9171 9172 9173 9174 9175 9176 9177 9180 9181 9182 9183 9184 9185 9186 9187 9188 9190 9191 9192 9193 9194 9195 9198 9199 9200	ND: C O N CA CB CCD OE: C O N CA CB CCD CE CC	1 ASN 2 ASN ASN ASN GLU GLU GLU GLU GLU TYR	420 420 420 421 421 421 421 421 421 422 422 422 422	115. 220 113. 072 116. 700 116. 135 118. 018 118. 895 120. 291 121. 358 122. 661 123. 169 123. 184 119. 028 118. 960 119. 223 119. 401 119. 386 119. 386 119. 386 119. 881 121. 046 121. 510 119. 198 119. 658 120. 813 121. 267 118. 401 117. 187 118. 401 117. 436 118. 393 117. 677 118. 692 118. 052 117. 097 116. 114 117. 331 116. 430 114. 969	40. 146 40. 146 40. 818 40. 426 39. 368 40. 532 39. 393 39. 694 38. 747 38. 782 39. 890 37. 756 39. 895 40. 023 39. 895 40. 023 39. 893 41. 210 48. 779 70. 546 60. 995 71. 707 81. 828 82. 779 83. 779 84. 779 85. 779 86. 995 87. 707 88. 548 88. 748 88. 749 88. 749 78. 546 88. 779 78. 546 88. 779 78. 546 88. 779 78. 546 88. 779 78. 546 88. 779 78. 546 88. 548 88.	44. 193 44. 169 46. 638 46. 910 46. 543 46. 754 46. 754 45. 951 45. 661 45. 639 48. 218 48. 519 49. 120 50. 530 51. 326 52. 741 53. 024 54. 314 53. 798 55. 097 55. 347 56. 637 51. 114 51. 012 51. 732 52. 340 53. 608 54. 751 56. 020 57. 098 58. 367 51. 378 51. 378 51. 797 50. 086 49. 070 49. 274	1. 00 14. 68 1. 00 7. 98 1. 00 16. 85 1. 00 18. 37 1. 00 17. 15 1. 00 19. 34 1. 00 18. 78 1. 00 20. 75 1. 00 22. 48 1. 00 21. 18 1. 00 22. 04 1. 00 19. 80 1. 00 20. 89 1. 00 19. 80 1. 00 21. 59 1. 00 19. 84 1. 00 19. 73 1. 00 21. 59 1. 00 19. 84 1. 00 23. 82 1. 00 23. 82 1. 00 23. 82 1. 00 23. 82 1. 00 23. 84 1. 00 23. 82 1. 00 23. 84 1. 00 22. 40 1. 00 21. 53 1. 00 22. 83 1. 00 22. 83 1. 00 22. 83 1. 00 21. 53 1. 00 21. 53 1. 00 21. 53 1. 00 21. 53 1. 00 22. 16 1. 00 21. 44 1. 00 22. 16 1. 00 20. 50 1. 00 20. 06 1. 00 20. 06 1. 00 20. 45 1. 00 21. 41	B B B B B B B B B B B B B B B B B B B	(Continued)  0 N C 0 N C C C C C C C C C C C C C C
ATOM ATOM ATOM	9200 9201 9202 9203	O N CA CB	GLY MET MET MET	424 425 425 425	114. 102 39 114. 695 30 113. 322 30 113. 234 33	5. 120 7. 163 7. 627 8. 329	49. 013 49. 739 49. 968 51. 317	1.00 21.91 1.00 20.34 1.00 18.53 1.00 19.68	B B B	O N C C
ATOM ATOM ATOM ATOM ATOM ATOM	9204 9205 9206 9207 9208 9209	CG SD CE C O N	MET MET MET MET MET PRO	425 425 425 425 425 426	113.506 38 111.741 38 112.908 38 113.405 39	8. 352 8. 663 8. 604 9. 725	54. 020 53. 907 48. 871 48. 819	1.00 22.38 1.00 24.27 1.00 21.26 1.00 16.75 1.00 17.33 1.00 16.64	B B B B B	C S C C O N
ATOM ATOM	9210 9211	CD CA	PRO PRO	426 426			48.017	1.00 17.29 1.00 15.29	B B	CCC

					FIC	G. 4-	189			(Continued)
ATOM 9	9214 9215 9216 9217 9218 9220 9221 9222 9223 9224 9225 9226 9227 9228 9229 9230 9231 9235 9236 9237 9241 9241 9242 9241 9242 9243 9244 9245 9247 9248 9249 9241 9242 9243 9244 9245 9245 9246 9247 9248 9248 9249 9240 9241 9242 9243 9245 9245 9245 9246 9247 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9249 9240 9241 9242 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9249 9240 9241 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9248 9258 9258 9268 9278 9778	NH2 C O N CA CCB CCD1 CCO N CCB CCD1 CCD2 CCO N CCB CCD2	ARG ARG ASN ASN ASN ASN ASN ASN LEU LEU LEU LEU LEU LEU LEU LEU TYR TYR TYR	426 426 426 427 427 427 428 428 429 429 429 429 429 429 429 429 430 430 430 430 431 431 431 431 431 432 432 432	FICE 110. 523 110. 816 110. 901 110. 913 110. 362 109. 718 110. 649 110. 184 111. 947 112. 902 113. 735 113. 778 114. 406 115. 224 114. 349 113. 580 112. 423 111. 590 111. 184 111. 535 110. 390 116. 420 116. 291 117. 584 118. 784 119. 605 118. 985 119. 104 118. 293 119. 644 119. 530 120. 504 121. 425 121. 709 122. 825 121. 709 122. 825 122. 501 122. 998 122. 729 123. 367 123. 112 124. 344 124. 061	38. 233 36. 823 40. 379 41. 402 40. 321 41. 480 42. 449 43. 462 42. 144 43. 036 43. 771 43. 363 44. 844 45. 630 46. 667 46. 947 46. 279 45. 008 44. 227 44. 520 46. 328 46. 983 46. 198 46. 198 47. 107 50. 198 51. 279 51. 399 52. 651 48. 038 47. 317 45. 978	1 8 9  46. 140 46. 561 47. 416 46. 727 48. 630 49. 217 49. 919 50. 452 49. 942 50. 577 49. 538 48. 377 49. 946 49. 023 48. 314 47. 144 46. 701 45. 699 46. 791 44. 825 49. 678 50. 707 49. 056 49. 585 50. 344 51. 677 52. 652 51. 727 48. 528 47. 335 48. 713 48. 012 46. 528 48. 667 48. 022 49. 028 46. 789 46. 511 45. 826	1. 00 15. 30 1. 00 15. 73 1. 00 15. 48 1. 00 15. 90 1. 00 14. 46 1. 00 13. 34 1. 00 13. 11 1. 00 14. 26 1. 00 9. 68 1. 00 9. 68 1. 00 10. 35 1. 00 10. 03 1. 00 11. 09 1. 00 12. 98 1. 00 14. 68 1. 00 18. 95 1. 00 18. 69 1. 00 18. 69 1. 00 19. 88 1. 00 21. 09 1. 00 17. 36 1. 00 20. 65 1. 00 13. 64 1. 00 13. 96 1. 00 13. 64 1. 00 13. 96 1. 00 13. 48 1. 00 13. 48 1. 00 11. 56 1. 00 7. 39 1. 00 14. 50 1. 00 15. 67 1. 00 16. 67 1. 00 16. 67 1. 00 17. 30 1. 00 17. 30 1. 00 17. 30 1. 00 17. 39	888888888888888888888888888888888888888	C C C O N C C O N C C C C C N C N N C O N C C C C
ATOM 9 ATOM 9 ATOM 9 ATOM 9 ATOM 9 ATOM 9	254 (255 (256 (257 (258 (259 (259 (259 (259 (259 (259 (259 (259	CG CD1 CE1 CD2 CE2 CZ	TYR TYR TYR TYR	432 432 432 432 432 432 432 432			45. 826 46. 654 46. 883 47. 601 47. 169 47. 882 48. 099		B B B B B B	C C C C C C C

					FIG	. 1 -	190			(Continued)
АТОИ	0961	C	TVD	400				1 00 15 50	<b>.</b>	0
ATOM ATOM	9261 9262	C 0	TYR TYR	$\begin{array}{c} 432 \\ 432 \end{array}$		48. 142 49. 066	45. 557 44. 903	1.00 17.78 1.00 18.57	B B	C
ATOM	9263	N	LYS	433		47. 805	45. 486	1.00 16.13	В	O N
ATOM	9264	CA	LYS	433		48. 460	44. 563	1.00 14.57	В	C
ATOM	9265	CB	LYS	433		49. 536	45. 251	1.00 16.46	В	č
ATOM	9266	CG	LYS	433		49. 022	46. 215	1.00 16.27	B	č
ATOM	9267	CD	LYS	433		50. 146	46.606	1.00 16.51	B	č
ATOM	9268	CE	LYS	433	131.190	49.723	47.712	1.00 16.69	B	Č
ATOM	9269	NZ	LYS	433	132.101	50.834	48.104	1.00 17.27	В	N
ATOM	9270	C	LYS	433	128. 269	47. 343	44.058	1.00 13.68	В	С
ATOM	9271	0	LYS	433		46. 454	44.820	1.00 11.44	В	0
ATOM	9272	N	ILE	434	128. 564	47. 364	42.767	1.00 13.85	В	N
ATOM	9273	CA	ILE	434	129. 411	46. 331	42. 191	1.00 15.56	В	C
ATOM	9274	CB	ILE	434		45. 504	41.124	1.00 14.45	В	C
ATOM ATOM	9275 9276		ILE ILE	434		46. 429	40.061	1.00 11.95	В	C
ATOM	9277		ILE	434 434		44. 458 43. 676	40.518	1.00 14.14	В	C
ATOM	9278	C	ILE	434		45. 070 46. 973	39. 379 41. 573	1.00 14.42 1.00 16.13	В	C
ATOM	9279	ŏ	ILE	434		48. 003	40.915	1.00 10.13	B B	C 0
ATOM	9280	Ň	GLN	435		46. 374	41.809	1.00 18.33	В	N N
ATOM	9281	CA	GLN	435		46. 907	41. 263	1.00 20.88	В	C
ATOM	9282	CB	GLN	435		46. 264	41.956	1.00 21.76	В	Č
ATOM	9283	CG	GLN	435		47. 145	41.958	1.00 24.28	В	č
ATOM	9284	CD	GLN	435		46.461	42.547	1.00 25.69	B	č
ATOM	9285	0E1		435		46. 154	43.741	1.00 26.08	В	0
ATOM	9286	NE2		435		16. 220	41.705	1.00 24.68	В	N
ATOM	9287	C	GLN	435		16.617	39. 767	1.00 20.60	В	C
ATOM	9288	0	GLN	435		45. 465	39. 348	1.00 20.57	В	0
ATOM ATOM	9289 9290	N CA	LEU	436		17. 668	38. 965	1.00 21.54	В	N
ATOM	9291	CA CB	LEU LEU	436 436		17. 527	37.513	1.00 23.39	В	C
ATOM	9292	CG	LEU	436		18. 905 19. 596	36. 880 37. 386	1.00 21.46	В	C
ATOM	9293		LEU	436		51.035	36. 920	1.00 19.80 1.00 19.31	B B	C C
ATOM	9294		LEU	436		18.831	36. 895	1.00 18.85	В	C ·
ATOM	9295	C	LEU	436		16. 790	36. 908	1.00 25.55	В	Č
ATOM	9296	0	LEU	436		6. 242	35. 810	1.00 27.46	B	Ö
ATOM	9297	N	SER	437		6. 775	37.613	1.00 26.98	B	Ň
ATOM	9298	CA	SER	437		6.069		1.00 26.89	B	Ċ
ATOM	9299	CB	SER	437		6.683	37.689	1.00 26.26	В	Č
ATOM	9300	0G	SER	437		6. 694		1.00 31.19	В	0
ATOM	9301	C	SER	437		4. 597		1.00 27.29	В	С
ATOM ATOM	9302 9303	0 N	SER	437				1.00 29.17	В	0
ATOM	9303	N CA	ASP ASP	438 438				1.00 26.66	В	N
ATOM	9304	CB	ASP	438 438				1.00 26.32	В	C
ATOM	9306	CG	ASP	438				1.00 28.65 1.00 30.81	B B	C C
ATOM	9307	0D1		438				1.00 30.81	В	0
ATOM	9308	0D2		438				1.00 33.46	В	0
ATOM	9309	C	ASP	438				1.00 24.90	B	Č

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						(Continued)
					FIG. 4-191	(00200000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9310 9311 9312 9313 9314 9315 9316 9317 9318 9320 9321 9322 9323	CE 1	ASP TYR TYR TYR TYR TYR TYR TYR TYR TYR TYR	438 439 439 439 439 439 439 439 439 439 439	F I G. 4 - 1 9 1  133. 959	O N C C C C C C C C C O C
ATOM ATOM ATOM	9324 9325 9326	CA CB OG1	THR THR THR	440 440 440	132. 858 39. 094 41. 699 1. 00 23. 35 B 134. 102 38. 196 41. 806 1. 00 23. 70 B 135. 221 38. 975 42. 250 1. 00 22. 70 B	C C O
ATOM ATOM ATOM ATOM	9327 9328 9329 9330	CG2 C O N	THR THR THR LYS	440 440 440 441	134. 418       37. 568       40. 462       1. 00 23. 82       B         132. 712       39. 852       43. 014       1. 00 22. 79       B         132. 169       39. 328       43. 987       1. 00 21. 81       B         133. 200       41. 087       43. 039       1. 00 22. 86       B	C C O N
ATOM ATOM ATOM ATOM	9331 9332 9333 9334	CA CB CG CD	LYS LYS LYS LYS	441 441 441 441	133. 123       41. 905       44. 243       1. 00       22. 90       B         134. 396       42. 741       44. 375       1. 00       25. 86       B         135. 620       41. 878       44. 682       1. 00       30. 20       B         136. 871       42. 702       44. 878       1. 00       34. 36       B	C C C
ATOM ATOM ATOM ATOM	9335 9336 9337 9338	CE NZ C	LYS LYS LYS LYS	441 441 441 441	138. 053	C N C
ATOM ATOM ATOM ATOM	9339 9340 9341 9342	N CA CB	VAL VAL VAL VAL	442 442 442 442	130. 880       42. 289       45. 039       1. 00 19. 62       B         129. 624       42. 984       45. 242       1. 00 17. 69       B         128. 458       42. 093       44. 799       1. 00 17. 33       B	N C C
ATOM ATOM ATOM ATOM	9343 9344 9345 9346		VAL VAL VAL	442 442 442	127. 123       42. 770       45. 119       1. 00 15. 79       B         128. 586       41. 792       43. 306       1. 00 11. 20       B         129. 502       43. 299       46. 733       1. 00 20. 40       B         129. 742       42. 437       47. 572       1. 00 22. 84       B	C C O
ATOM ATOM ATOM	9347 9348 9349	CA CB OG1		443 443 443	129. 129 44. 528 47. 066 1. 00 20. 64 B 129. 015 44. 927 48. 461 1. 00 22. 17 B 130. 040 46. 035 48. 801 1. 00 24. 13 B 131. 370 45. 566 48. 546 1. 00 28. 90 B	N C C O
ATOM ATOM ATOM ATOM	9350 9351 9352 9353 9354	CG2 C O N CA	THR THR CYS CYS	443 443 444 444	129. 923       46. 442       50. 255       1. 00       22. 91       B         127. 641       45. 475       48. 819       1. 00       23. 06       B         127. 210       46. 483       48. 254       1. 00       26. 29       B         126. 948       44. 835       49. 754       1. 00       21. 88       B         125. 656       45. 368       50. 163       1. 00       22. 22       B	C C O N C
ATOM ATOM ATOM ATOM	9355 9356 9357 9358	C O CB SG	CYS CYS CYS CYS	444 444 444 444	125. 963       46. 516       51. 115       1. 00       20. 79       B         126. 866       46. 411       51. 941       1. 00       19. 89       B         124. 801       44. 328       50. 878       1. 00       24. 50       B         123. 137       44. 986       51. 221       1. 00       27. 42       B	C O C S

			FIG. 4-192	(Continued)
ATOM	9359 N LE	TT 445		
ATOM			125. 205 47. 602 51. 005 1. 00 20. 20 125. 442 48. 785 51. 824 1. 00 17. 71	B N
ATOM				B C
ATOM			125.651 49.988 50.899 1.00 15.76 126.714 49.756 49.812 1.00 15.86	B C B C
ATOM			100 000	B C B C
ATOM	9364 CD2 LE		100 000	B C
ATOM	_		104 000	B C
ATOM	9366 0 LE		124.446 50.036 53.608 1.00 20.41	B 0
ATOM	9367 N SE		123. 262 48. 314 52. 776 1. 00 21. 11	B N
ATOM ATOM	9368 CA SEI 9369 CB SEI			B C
ATOM	9369 CB SEI 9370 OG SEI			B C
ATOM	9371 C SEI			B 0
ATOM	9372 0 SEI		101 005 45 404 55	B C
ATOM	9373 N CYS		100 040 40 444	B O B N
ATOM	9374 CA CYS		101 005 11 055	B N B C
ATOM	9375 C CYS	447	101 047 44 040	B C
ATOM	9376 O CYS		120. 881 44. 602 56. 739 1. 00 24. 50	B Ö
ATOM	9377 CB CYS		122. 461 43. 722 53. 874 1. 00 24. 68	B Č
ATOM ATOM	9378 SG CYS		122. 134 43. 458 52. 103 1. 00 31. 64 H	
ATOM	9379 N GLU 9380 CA GLU		123. 080 45. 011 56. 463 1. 00 23. 42	
ATOM	9380 CA GLU 9381 CB GLU		123. 394 44. 913 57. 881 1. 00 23. 49	
ATOM	9382 CG GLU		124.805 44.358 58.061 1.00 24.37 125.060 43.017 57.395 1.00 28.24	
ATOM	9383 CD GLU		100 000 41 005 55 510	
ATOM	9384 OE1 GLU		100 077 40 070 50 700	
ATOM	9385 OE2 GLU		123. 377 42. 073 58. 796 1. 00 36. 48 123. 786 41. 070 56. 882 1. 00 37. 27	
ATOM	9386 C GLU	448	123. 249 46. 162 58. 738 1. 00 23. 12 B	
ATOM	9387 O GLU	448	123. 458 46. 101 59. 948 1. 00 24. 21 B	
ATOM	9388 N LEU	449	122. 900 47. 289 58. 134 1. 00 20. 81 B	
ATOM ATOM	9389 CA LEU 9390 CB LEU	449	122. 733 48. 516 58. 899 1. 00 20. 59 B	C
ATOM	9390 CB LEU 9391 CG LEU	449 449	122. 123 49. 592 58. 010 1. 00 18. 76 B	
ATOM	9392 CD1 LEU	449	123. 019 50. 143 56. 909 1. 00 17. 31 B 122. 221 51. 089 56. 045 1. 00 18. 95 B	_
ATOM	9393 CD2 LEU	449	194 100 50 000 55 505	
ATOM	9394 C LEU	449	124. 199 50. 868 57. 527 1. 00 16. 25 B 121. 853 48. 311 60. 144 1. 00 22. 20 B	C C
ATOM	9395 O LEU	449	122. 232 48. 674 61. 261 1. 00 22. 27 B	0
ATOM	9396 N ASN	450	120. 677 47. 731 59. 937 1. 00 22. 75 B	N
ATOM	9397 CA ASN	450	119.729 47.462 61.011 1.00 21.80 B	Č
ATOM ATOM	9398 CB ASN	450	118. 958 48. 731 61. 344 1. 00 23. 73 B	Ċ
ATOM	9399 CG ASN 9400 OD1 ASN	450 450	118. 226 48. 632 62. 661 1. 00 26. 67 B	C
ATOM	9401 ND2 ASN	450 450	117. 678 47. 581 63. 004 1. 00 26. 78 B 118. 199 49. 733 63. 406 1. 00 26. 73 B	0
ATOM	9402 C ASN	450	110 550	N
ATOM	9403 O ASN	450	118.772 46.400 60.469 1.00 22.01 B 117.649 46.701 60.072 1.00 21.48 B	C
ATOM	9404 N PRO	451	119. 215 45. 134 60. 442 1. 00 21. 65 B	O N
ATOM	9405 CD PRO	451	120.506 44.673 60.969 1.00 20.73 B	C
ATOM	9406 CA PRO	451	118. 430 44. 004 59. 941 1. 00 21. 39 B	č
ATOM	9407 CB PRO	451	119. 362 42. 817 60. 162 1. 00 19. 94 B	Č



					DI	<b>a</b>	100			(Continued)
					P I	G. 4	193			
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9408 9409 9410 9411 9412 9413 9414	CG C O N CA CB CG	PRO PRO PRO GLU GLU GLU GLU	451 451 451 452 452 452 452	120. 209 117. 035 116. 125 116. 850 115. 539 115. 650	43. 774 43. 392 44. 003 43. 793 43. 767 42. 720	60. 509 59. 774 61. 800 62. 394 63. 920 64. 455	1.00 21.78 1.00 23.49 1.00 25.06 1.00 24.25 1.00 26.56 1.00 32.21 1.00 39.54	B B B B B	C C O N C C C
ATOM ATOM ATOM ATOM ATOM	9415 9416 9417 9418 9419 9420	C O N	GLU GLU GLU ARG	452 452 452 452 452 453	116. 666 117. 355 116. 019 114. 543 113. 374 115. 010	41. 782 43. 529 44. 867 44. 582 46. 101	66. 521 66. 627 61. 968 61. 733 61. 848	1.00 44.38 1.00 47.19 1.00 46.89 1.00 25.59 1.00 27.44 1.00 23.36	B B B B	C 0 0 C 0 N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9421 9422 9423 9424 9425 9426 9427	CA CB CG CD NE CZ	ARG ARG ARG ARG ARG	453 453 453 453 453	114. 132 114. 539 113. 714 114. 165 113. 364 113. 582	48. 463 49. 685 50. 878 52. 058 53. 245	61. 478 62. 234 61. 872 62. 662 62. 375 62. 927	1.00 21.67 1.00 21.94 1.00 20.24 1.00 17.23 1.00 16.99 1.00 17.21	B B B B	C C C C N C
ATOM ATOM ATOM ATOM ATOM	9428 9429 9430 9431 9432	C O N CA	ARG ARG ARG CYS CYS	453 453 453 453 454 454	114. 579 112. 813 114. 077 113. 024 115. 206 115. 293	54. 280 47. 527 47. 910 47. 368 47. 715	63. 791 62. 619 59. 994 59. 477 59. 312 57. 903	1.00 17.27 1.00 14.66 1.00 21.78 1.00 20.58 1.00 21.64 1.00 19.87	B B B B B	N N C O N C
ATOM ATOM ATOM ATOM ATOM ATOM	9433 9434 9435 9436 9437 9438	C O CB SG N CA	CYS CYS CYS CYS GLN GLN	454 454 454 454 455 455	115. 598 116. 698 116. 295 115. 666 114. 608 114. 692	46. 616 46. 074 48. 847 50. 300 46. 332 45. 305	56. 896 56. 865 57. 770 58. 650 56. 051 55. 015	1. 00 19. 70 1. 00 21. 81 1. 00 19. 47 1. 00 18. 98 1. 00 19. 11 1. 00 14. 77	B B B B B	C O C S N C
ATOM ATOM ATOM ATOM ATOM ATOM	9439 9440 9441 9442 9443 9444	C	GLN GLN GLN GLN GLN GLN	455 455 455 455 455 455	113. 881 114. 425 113. 425 112. 514 113. 605 114. 156	44. 085 43. 413 42. 482 41. 958 42. 266 45. 815	55. 457 56. 711 57. 387 56. 749 58. 688 53. 669	1. 00 13. 34 1. 00 12. 92 1. 00 13. 33 1. 00 14. 25 1. 00 13. 47 1. 00 14. 10	B B B B	C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM	9445 9446 9447 9448 9449 9450		GLN TYR TYR TYR TYR TYR	455 456 456 456 456 456	114. 058 113. 803 113. 268 111. 742 111. 049 110. 504	45. 059 47. 094 47. 651 47. 600 47. 707 46. 578	52. 704 53. 597 52. 355 52. 387 51. 045 50. 436	1. 00 14. 35 1. 00 13. 95 1. 00 13. 75 1. 00 13. 55 1. 00 10. 86 1. 00 10. 75	B B B B B	O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM		CD2	TYR TYR TYR TYR TYR TYR TYR	456 456 456 456 456 456	109. 815 110. 891 110. 207 109. 669 108. 949 113. 718	46. 674 48. 941 49. 046 47. 910 47. 994 49. 092	49. 236 50. 405 49. 200 48. 629 47. 464 52. 190	1.00 9.29 1.00 9.71 1.00 4.15 1.00 8.20 1.00 11.71 1.00 14.04	B B B B B	C C C C O C

					FIG	. 4 -	194			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9457 9458 9459 9460 9461 9462 9463 9464 9465 9466 9467 9471 9472 9473 9474 9475 9476 9477 9478 9479	O N CA CB CC1 CC2 CZ OH C O N CA CB CC	TYR TYR TYR TYR TYR TYR SER SER SER SER SER VAL VAL	456 457 457 457 457 457 457 457 457 457 458 458 458 458 458 459 459 459	113. 127 114. 752 115. 286 116. 792 117. 271 117. 364 117. 903 117. 714 118. 245 118. 341 118. 877 115. 085 114. 827 115. 176 113. 853 113. 804 116. 318 116. 631 116. 631 116. 946 118. 086 119. 392	49. 991 49. 309 50. 646 50. 674 50. 394 49. 088 48. 836 51. 193 49. 902 49. 701 51. 192 50. 455 52. 505 53. 207 53. 207 53. 138 54. 175 54. 175 54. 431 54. 709 55. 593	1 9 4 52. 775 51. 382 51. 152 51. 390 52. 786 53. 275 54. 540 53. 595 54. 850 55. 318 56. 559 49. 742 48. 797 49. 624 48. 352 48. 163 48. 932 48. 620 49. 791 47. 574 47. 779 47. 433 45. 934	1. 00 15. 30 1. 00 15. 11 1. 00 14. 85 1. 00 14. 57 1. 00 14. 62 1. 00 14. 12 1. 00 13. 34 1. 00 13. 51 1. 00 13. 51 1. 00 15. 66 1. 00 17. 46 1. 00 14. 42 1. 00 14. 42 1. 00 15. 84 1. 00 15. 10 1. 00 14. 29 1. 00 13. 45 1. 00 13. 28 1. 00 13. 28 1. 00 10. 72	B B B B B B B B B B B B B B B B B B B	(Continued)  O N C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9480 9481 9482 9483 9484 9485 9486 9487 9488 9490 9491 9492 9493 9494 9495 9496 9497 9498 9499 9500 9501 9502 9503 9504 9505	CG2 C O N CA CB OG C O N CA CB CG CD1 CD2 CE1	VAL VAL VAL VAL VAL VAL VAL VAL VAL VAL	459 459 459 460 460 460 460 461 461 461 461 461 461 461 461 461 462 462 462 462 462 462	120. 600 118. 051 117. 283 118. 901 118. 997 118. 039 6118. 038 6120. 442 120. 930 6121. 123 122. 516 6123. 314 123. 583 122. 594 124. 837 122. 848 125. 105 124. 108 122. 665 121. 833 123. 740 6124. 019 125. 131 126. 346 6124. 465 66	55. 672 56. 882 57. 007 57. 834 59. 106 60. 116 61. 333 59. 629 60. 040 59. 611 60. 068 59. 229 57. 809 56. 832 57. 809 56. 118 55. 153 51. 533 52. 076 63. 170 63. 555 64. 137 63. 421 63. 559	47. 878 46. 969 46. 021 47. 347 46. 643 47. 272 46. 553 46. 693 47. 752 45. 547 45. 469 44. 454 44. 885 44. 792 45. 752 45. 752 45. 653 45. 653 45. 653 45. 653 45. 653 46. 036 47. 752 48. 753 48. 755 48.	1. 00 13. 89 1. 00 14. 23 1. 00 14. 51 1. 00 14. 61 1. 00 14. 81 1. 00 15. 45 1. 00 15. 15 1. 00 14. 75 1. 00 14. 75 1. 00 14. 99 1. 00 14. 06 1. 00 10. 57 1. 00 8. 39 1. 00 7. 71 1. 00 6. 73 1. 00 6. 28 1. 00 6. 28 1. 00 6. 24 1. 00 6. 94 1. 00 16. 79 1. 00 17. 81 1. 00 18. 84 1. 00 20. 51 1. 00 21. 92 1. 00 24. 40 1. 00 20. 69 1. 00 21. 27	B B B B B B B B B B B B B B B B B B B	

ATOM 9521 OE2 GLU 464 128.371 64.817 38.557 1.00 38.51 B ATOM 9522 C GLU 464 128.476 61.627 42.367 1.00 26.36 B ATOM 9523 O GLU 464 129.515 60.975 42.379 1.00 25.64 B	
ATOM 9525 CA ALA 465 127.372 60.127 43.936 1.00 21.85 B ATOM 9526 CB ALA 465 127.663 58.869 43.121 1.00 21.46 B ATOM 9527 C ALA 465 128.362 60.245 45.074 1.00 20.68 B ATOM 9528 O ALA 465 128.850 59.244 45.591 1.00 16.26 B ATOM 9529 N LYS 466 128.661 61.476 45.462 1.00 22.56 B ATOM 9530 CA LYS 466 129.588 61.693 46.562 1.00 24.73 B ATOM 9531 CB LYS 466 130.041 63.154 46.609 1.00 25.44 B ATOM 9532 CG LYS 466 131.173 63.405 47.581 1.00 29.20 B ATOM 9533 CD LYS 466 131.835 64.762 47.351 1.00 32.39 B ATOM 9534 CE LYS 466 133.084 64.909 48.218 1.00 34.11 B ATOM 9535 NZ LYS 466 133.806 66.188 47.965 1.00 36.88 B ATOM 9537 O LYS 466 128.859 61.318 47.847 1.00 24.27 B ATOM 9537 O LYS 466 129.469 60.850 48.809 1.00 24.32 B	
ATOM 9539 CA TYR 467 126.722 61.182 49.004 1.00 23.27 B (ATOM 9540 CB TYR 467 126.356 62.441 49.794 1.00 23.00 B (ATOM 9541 CG TYR 467 127.527 63.237 50.292 1.00 24.92 B (ATOM 9543 CD1 TYR 467 127.527 63.237 50.292 1.00 24.92	C C C
ATOM 9543 CE1 TYR 467 129.301 64.841 49.902 1.00 26.01 B (ATOM 9544 CD2 TYR 467 127.981 63.095 51.604 1.00 26.01 B (ATOM 9545 CE2 TYR 467 129.079 63.811 52.064 1.00 26.37 B (ATOM 9546 CZ TYR 467 129.736 64.681 51.206 1.00 26.55 B (ATOM 9547 OH TYR 467 130.841 65.369 51.645 1.00 26.89 B	C C C C C
ATOM       9548       C       TYR       467       125.428       60.500       48.584       1.00       22.16       B         ATOM       9549       0       TYR       467       125.034       60.557       47.420       1.00       22.32       B         ATOM       9550       N       TYR       468       124.775       59.840       49.534       1.00       21.72       B       N         ATOM       9551       CA       TYR       468       123.492       59.208       49.251       1.00       21.47       B       0         ATOM       9552       CB       TYR       468       123.650       57.817       48.614       1.00       19.80       B	C O N C C
ATOM 9553 CG 14R 468 124.468 56.797 49.380 1.00 19.37 B C ATOM 9554 CD1 TYR 468 125.844 56.683 49.184 1.00 20.24 B C	

(Continued)

					FI	G. 4	196	5		(Co
ATOM ATOM	9555 9556		1 TYR 2 TYR		126. 588 123. 856				B B	C
ATOM	9557		2 TYR		124. 588		50. 202		B	C C
ATOM	9558	CZ	TYR		125. 951	54. 816	50. 695		В	Č
ATOM	9559	OH	TYR		126.674		51.349		В	ŏ
ATOM	9560	C	TYR	468	122.602	59.103	50.474		В	č
ATOM	9561	0	TYR		123.068	58.836	51.588		B	ŏ
ATOM	9562	N	GLN		121.317	59.360	50. 268		B	N
ATOM	9563	CA	GLN		120. 369	59. 235	51.355		В	C
ATOM	9564	CB	GLN		119. 277	60.302	51. 283		В	C
ATOM	9565	CG	GLN		118. 247	60. 143	52. 393	1.00 16.33	В	C
ATOM ATOM	9566 9567	CD	GLN		117. 035	61.034	52. 214	1.00 16.44	В	C
ATOM	9568	OE1		469 469	116.438	61.076	51.147	1.00 18.52	В	0
ATOM	9569	C	GLN	469	116.659 119.729	61. 739 57. 855	53. 265	1.00 16.60	В	N
ATOM	9570	Õ	GLN	469	119. 729	57. 413	51. 240 50. 156	1.00 18.75	В	C
ATOM	9571	Ň	LEU	470	119.641	57. 160	52. 359	1.00 20.25 1.00 18.03	В	0
ATOM	9572	CA	LEU	470	119.013	55. 862	52. 383	1.00 16.05	B B	N C
ATOM	9573	CB	LEU	470	119.871	54.860	53. 153	1.00 12.88	В	C
ATOM	9574	CG	LEU	470	120.920	54.116	52. 334	1.00 7.18	В	Č
ATOM	9575		LEU	470	121.669	53.176	53. 230	1.00 9.83	В	Č
ATOM	9576		LEU	470	120. 248	53. 344	51.241	1.00 5.95	B	č
ATOM	9577	C	LEU	470	117.674	56. 055	53.077	1.00 18.52	В	Č
ATOM	9578	0	LEU	470	117.573	56. 769	54.082	1.00 17.50	В	0
ATOM	9579	N	ARG	471	116.644	55. 437	52. 517	1.00 20.97	В	N
ATOM ATOM	9580 9581	CA CB	ARG	471	115.306	55. 521	53.070	1.00 23.15	В	C
ATOM	9582	CG	ARG ARG	471 471	114.354	56. 203	52.085	1.00 25.88	В	C
ATOM	9583	CD	ARG	471	112.907 111.997	56. 240 56. 927	52. 553	1.00 31.75	В	C
ATOM	9584	NE	ARG	471	111. 997	50. 927	51. 541 52. 102	1.00 35.75 1.00 39.62	В	C
ATOM	9585	CZ	ARG	471	109.737	57. 920	51.478	1.00 39.02	B B	N C
ATOM	9586	NH1		471	109.972	58. 412	50. 269	1.00 41.53	В	N
ATOM	9587	NH2	ARG	471	108.564	58. 142	52.063	1.00 40.93	В.	N
ATOM	9588	C	ARG	471	114.826	54.112	53. 345	1.00 24.13	B	Č
ATOM	9589	0	ARG	471	114.604	53.323	52.425	1.00 25.84	B	ŏ
ATOM	9590	N	CYS	472	114.687	53. 796	54.621	1.00 23.64	В	Ň
ATOM	9591	CA	CYS	472	114. 219	52.487	55.042	1.00 23.00	В	С
ATOM	9592	C	CYS	472	112.732	52.636	55. 321	1.00 21.14	В	C
ATOM ATOM	9593 9594	O CB	CYS	472	112.323	53. 547	56.036	1.00 21.12	В	0
ATOM	959 <del>4</del> 9595	SG	CYS CYS	472	114.981	52.073	56. 299	1.00 23.91	В	C
ATOM	9596	N	SER	472 473	114.149 111.919	50.907	57.416	1.00 27.85	В	S
ATOM	9597	CA	SER	473	111. 313	51.755 51.846	54. 756 54. 967	1.00 19.44	В	N
ATOM	9598	CB	SER	473	100. 482	52. 191	53. 646	1.00 18.92 1.00 18.36	B B	C
ATOM	9599	0G	SER	473	110.141	51. 261	52.642	1.00 18.30	В	C 0
ATOM	9600	C	SER	473	109.832	50. 609	55. 581	1.00 21.33	В	C
ATOM	9601	0	SER	473	108.615	50. 465	55. 530	1.00 19.59	В	Ö
ATOM	9602	N	GLY	474	110.629	49.716	56. 156	1.00 16.48	B	N
ATOM	9603	CA	GLY	474	110.055	48.532	56.771	1.00 16.90	В	Ċ

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					(Continued)
				FIG. 4-197	(00110111111111111111111111111111111111
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9605   9606   9607   9608   9609   9610   9611   9612   9613   N   9614   9615   9616   9617   9618   9620   9621   9622   9623   9624   9625   9626   9627   9628   9626   9627   9628   9630   9631   0   9631	N LEU CA LEU CB LEU CB LEU CD1 LEU CD2 LEU CD2 LEU CD PRO CA PRO	474 474 475 475 475 475 475 476 476 477 477 477 477 477 477 477 477	FIG. 4 - 197  111.040 47.425 57.091 1.00 16.48 112.149 47.403 56.563 1.00 18.05 110.643 46.446 57.913 1.00 16.25 111.562 45.333 58.219 1.00 17.27 109.353 46.249 58.584 1.00 14.24 109.445 44.807 59.068 1.00 13.06 110.896 44.680 59.411 1.00 14.77 109.012 47.214 59.716 1.00 14.52 107.840 47.392 60.041 1.00 16.67 110.023 47.818 60.331 1.00 14.14 109.770 48.750 61.415 1.00 14.62 109.524 50.140 60.868 1.00 12.63 109.407 50.307 59.656 1.00 12.58 109.454 51.137 61.748 1.00 11.74 109.222 52.519 61.331 1.00 11.74 109.222 52.519 61.331 1.00 11.74 109.222 52.519 61.331 1.00 11.82 107.940 54.009 64.698 1.00 12.46 106.586 53.114 62.775 1.00 12.46 106.586 53.114 62.775 1.00 12.47 110.325 53.086 60.414 1.00 13.02 107.940 54.009 64.698 1.00 12.46 106.586 53.114 62.775 1.00 12.47 110.325 53.086 60.414 1.00 13.58 111.516 52.819 60.604 1.00 11.34 109.931 53.894 59.414 1.00 13.58 108.541 54.283 59.121 1.00 14.52 110.852 54.510 58.455 1.00 14.52 110.852 54.510 58.455 1.00 14.52 110.852 54.510 58.455 1.00 14.07 109.962 55.495 57.702 1.00 14.19 112.033 55.188 59.118 1.00 15.11 11.892 55.820 60.163 1.00 16.31 13.197 55.048 58.490 1.00 16.04 114.444 55.621 58.982 1.00 15.01 115.279 54.528 59.657 1.00 13.83 116.675 54.866 60.179 1.00 12.46 116.606 55.990 61.189 1.00 13.23 117.268 53.631 60.813 1.00 15.76 116.350 58.165 56.883 1.00 15.76 116.350 58.165 56.883 1.00 16.51	ONCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
ATOM ATOM ATOM	9640 N 9641 CA 9642 CE	TYR A TYR B TYR	480 480 480	115. 627 57. 468 57. 940 1. 00 15. 76 B 116. 350 58. 165 56. 883 1. 00 16. 51 B 115. 631 59. 471 56. 517 1. 00 18. 80 B	N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM		D1 TYR E1 TYR D2 TYR E2 TYR Z TYR	480 480 480 480 480 480 480	114. 210       59. 293       56. 024       1. 00 20. 33       B         113. 910       59. 364       54. 664       1. 00 22. 57       B         112. 604       59. 161       54. 196       1. 00 23. 68       B         113. 170       59. 019       56. 915       1. 00 20. 23       B         111. 870       58. 815       56. 464       1. 00 22. 45       B         111. 591       58. 885       55. 102       1. 00 24. 15       B	C C C C C
ATOM ATOM ATOM	9650 C 9651 O 9652 N	TYR TYR TYR THR	480 480 481	110. 312       58. 658       54. 648       1. 00       24. 41       B         117. 744       58. 483       57. 379       1. 00       15. 96       B         117. 910       59. 005       58. 482       1. 00       15. 89       B         118. 743       58. 179       56. 559       1. 00       15. 76       B	0 C 0 N

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		•			F	. I (	3.	4 -	198				(	Continued)
ATOM 96	653 CA	. 1	THR 4	181	120.	129	58.	431	56. 924	1.00	15.65	i	В	С
	654 CE			181	120.			163	57.480		14. 54		B	C
				181	120.			065	56.622		18.10		В	0
				181	120.			864	58.858		15.87		В	C
	657 C			181	120.			919	55.752		16.24		В	С
	558 0			181	120.		58.	648	54.602		16.93		В	0
	359 N			182	122.			646	56.058		18.90		В	N
	360 CA			182	122.	937		166	55.038	1.00	19.21		В	C
	661 CB			182	123.			653	55.279	1.00	20.10	)	В	C
	662 CG	I		182	123.	765		439	54.092	1.00	21.90	)	В	C
	663 CD	1 I	EU 4	82	122.	736	62.	475	52.975	1.00	21.10	)	В	C
	664 CD	2 I	EU 4	82	124.	115	63.	856	54. 525	1.00	22.66		В	C
ATOM 96	665 C	I	LEU 4	82	124.	243	59.	373	55. 121	1.00	19.39	ĺ	В	C
ATOM 96	666 0	Ι	.EU 4	82	124.	684	59.	013	56. 210		20.79		В	0
ATOM 96	367 N			83	124.			096	53.970		18.33		В	N
	568 CA			83	126.			332	53.903		16.79		В	C
	369 CB				125.			894	53.488		14.55		В	C
	570 CG				124.			245	54. 276		14.89		В	C
		2 H			123.			434	54. 264		15.13		В	C
		1 H			124.			258	55. 211		16.09		В	N
		1 H			123.			867	55. 736		13.84		В	C
					122.		<b>55.</b>		55. 178		14.31		В	N
	675 C				127.			939	52.868		18.94		В	C
	676 0				126.		59.		51.961		19.56		В	0
	577 N				128.		58.		53.003		19.52		В	N
	578 CA				129.		59.		52.040		21.33		В	C
	579 CB				130.		59.		52. 738		21.77		В	C
	80 OG				131.		58.		53. 344		24. 25		В	0
	881 C				129.		57.		51. 259		21.22		В	C
	82 0				129.		56.		51.830		19.26		В	0
	83 N				129.		58.		49.960		22.12		В	N
	84 CA				130.		56.		49.110		25.62		В	C
					130.				47.645				В	C
	86 OG				128.		57.		47. 444		30.40		В	0
	87 C				131.		56.		49. 221		26.33		В	C
	88 O				132.		55.		49. 138		27. 23		В	0
	89 N				132.		57.		49. 407		28.07		В	N
	90 CA				134.		57.		49.468		29.41		В	C
	91 CB				135.		58.		49. 798		30.37		В	C
		1 V			134.		58.		51.192		31.49		В	C
		2 V			136.		57.		49.665		30.81		В	C
	594 C 595 O				134.		55. 55.		50.442		30. 57 31. 62		В	C
					135.				50.119		30.95		В	0
	596 N 597 CA				133. 134.		55. 54.		51. 630 52. 610		31.75		B B	N C
	JULI UM	n							53. 833		35. 87			
	ፈጊ ይወ	٨	CM A	ጸ7	12/		<b>55</b>							1
ልፐበለ ዐና	98 CB				134.		55. <sub>5</sub>						B R	C
	99 CG		SN 4	87	134. 136. 136.	336	55. 55. 56.	868	53. 537 54. 014	1.00	38. 55 38. 47	]	ь В В	C C 0

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					FI	G. 4-	199			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9702 9703 9704 9705 9706 9707 9708 9709 9710 9711 9712	OD2 C O N CA	ASN ASP ASP ASP ASP ASP ASP LYS LYS	487 488 488 488 488 488 488 488 488 489	132. 850 132. 830 131. 762 130. 449 130. 331 130. 253 129. 461 130. 977 130. 219 129. 654 130. 669 130. 503	54. 288 53. 486 54. 633 54. 108 52. 636 52. 440 53. 146 51. 572 54. 259 53. 382 55. 378 55. 610	53. 048 53. 982 52. 364 52. 707 52. 313 50. 816 50. 161 50. 290 54. 204 54. 856 54. 754 56. 176	1. 00 30. 74 1. 00 31. 45 1. 00 28. 68 1. 00 26. 66 1. 00 27. 90 1. 00 29. 72 1. 00 31. 30 1. 00 32. 18 1. 00 25. 72 1. 00 24. 30 1. 00 25. 25 1. 00 24. 10	B B B B B B B B	C O N C C C O O C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9714 9715 9716 9717 9718 9719 9720 9721	CB CG CD CE NZ C	LYS LYS LYS LYS LYS LYS GLY	489 489 489 489 489 489 489	131. 607 131. 622 132. 805 132. 771 133. 883 129. 140 128. 556 128. 639	56. 529 57. 898 58. 719 60. 133 60. 959 56. 216 56. 872 55. 968	56. 705 56. 069 56. 560 55. 995 56. 541 56. 449 55. 585 57. 657	1.00 24.94 1.00 29.19 1.00 33.11 1.00 34.94 1.00 39.70 1.00 22.29 1.00 20.15 1.00 22.04	B B B B B B	C C C N C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9722 9723 9724 9725 9726 9727 9728 9729		GLY GLY LEU LEU LEU LEU	490 490 490 491 491 491 491	127. 352 127. 545 128. 091 127. 092 127. 234 127. 032 128. 153 127. 831	56. 487 57. 854 57. 989 58. 876 60. 233 61. 203 61. 167 62. 089	58. 067 58. 676 59. 769 57. 965 58. 440 57. 283 56. 242 55. 090	1.00 20.03 1.00 20.18 1.00 20.54 1.00 19.44 1.00 19.54 1.00 20.53 1.00 18.39 1.00 19.23	B B B B B B	C C O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9730 9731 9732 9733 9734 9735 9736 9737 9738	CDZ C O N CA CB CG CD NE	LEU LEU ARG ARG ARG ARG ARG ARG	491 491 491 492 492 492 492 492	129. 441 126. 287 126. 735 124. 984 124. 020 124. 036 123. 393 123. 759 125. 193	61.577 60.555 60.780 60.566 60.881 62.382 63.244 64.698 64.888	56. 898 59. 586 60. 713 59. 316 60. 364 60. 644 59. 568 59. 798	1. 00 18. 31 1. 00 20. 91 1. 00 22. 15 1. 00 20. 73 1. 00 20. 06 1. 00 20. 71 1. 00 20. 08 1. 00 21. 15	B B B B B	C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9739 9740 9741 9742 9743 9744 9745 9746	CZ NH1 NH2 C O N CA CB	ARG ARG ARG ARG VAL VAL VAL	492 492 492 492 492 493 493	125. 765 125. 022 127. 083 122. 585 122. 247 121. 746 120. 344 119. 883	65. 192 65. 360 65. 286 60. 443 59. 998 60. 580 60. 211 59. 537	59. 625 58. 466 57. 380 58. 383 60. 085 58. 983 61. 107 61. 018 62. 325	1.00 21.60 1.00 23.12 1.00 24.47 1.00 23.72 1.00 21.47 1.00 21.32 1.00 20.97 1.00 21.38 1.00 22.41	B B B B B B	N C N C O N C C
ATOM ATOM ATOM ATOM	9747 9748 9749 9750		VAL VAL VAL VAL	493 493 493 493	118. 402 120. 698 119. 497 119. 462	59. 215 58. 266 61. 456 62. 371	62. 247 62. 574 60. 763 61. 580	1.00 23.17 1.00 20.83 1.00 21.55 1.00 21.85	B B B B	C C C

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					FI	G. 4	- 201	•		( = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =
ATOM	9800		2 LEU		104. 744				В	Ċ
ATOM ATOM	9801 9802		LEU LEU		105. 745 104. 777				В	C
ATOM	9803		ASP		106. 997		67. 131	1.00 24.06 1.00 26.06	B B	O N
ATOM	9804			501	107. 301	55. 392			В	C
ATOM	9805			501	108. 793				В	č
ATOM	9806		ASP	501	109. 145	53.848			B	č
ATOM	9807		1 ASP	501	108. 621	52.789	68.164		В	0
ATOM	9808		2 ASP	501	109. 939	53. 901	69.512	1.00 30.35	В	0
ATOM	9809		ASP	501	106. 827	55. 484	69. 309	1.00 27.60	В	C
ATOM	9810		ASP	501	106. 296	54. 520	69. 855	1.00 27.99	В	0
ATOM ATOM	9811 9812	N CA	LYS LYS	502	107.011	56.645	69. 924	1.00 28.69	В	N
ATOM	9813	CB	LYS	502 502	106. 591 107. 034	56. 819 58. 184	71.301	1.00 31.12	В	C
ATOM	9814	CG	LYS	502 502	107. 034	58. 484	71. 834 73. 239	1.00 33.97 1.00 35.56	В	C
ATOM	9815	CD	LYS	502	106. 991	59. 822	73. 766	1.00 36.56	B B	C C
ATOM	9816	CE	LYS	502	106. 308	60. 162	75. 083	1.00 30.30	В	C
ATOM	9817	NZ	LYS	502	106. 514	59. 098	76. 104	1.00 38.22	В	N
ATOM	9818	C	LYS	502	105.080	56.679	71.426	1.00 31.95	B	Ĉ
ATOM	9819	0	LYS	502	104. 592	55.937	72.276	1.00 33.49	B	Ö
ATOM	9820	N	MET	503	104. 338	57.380	70.574	1.00 32.49	В	N
ATOM	9821	CA	MET	503	102. 881	57. 307	70.624	1.00 33.25	В	C
ATOM	9822	CB	MET	503	102. 254	58. 342	69.690	1.00 35.92	В	C
ATOM ATOM	9823 9824	CG	MET	503	102.518	59. 768	70. 131	1.00 42.44	В	C
ATOM	9825	SD CE	MET MET	503 503	101.702	60. 993	69. 105	1.00 52.16	В	S
ATOM	9826	CE	MET	503	100. 419 102. 361	61. 581 55. 927	70. 243	1.00 50.62	В	C
ATOM	9827	ŏ	MET	503	101.476	55. 413	70. 279 70. 954	1.00 31.30 1.00 31.92	В	C
ATOM	9828	Ň	LEU	504	102. 914	55. 318	69. 238	1.00 31.92	B B	O N
ATOM	9829	CA	LEU	504	102.471	53. 993	68.836	1.00 30.00	В	C
ATOM	9830	CB	LEU	504	103. 276	53. 517	67.624	1.00 28.63	В	Č
ATOM	9831	CG	LEU	504	102.517	53.477	66. 290	1.00 29.55	В	Č
ATOM	9832		LEU	504	101.696	54.750	66.106	1.00 28.10	B	č
ATOM	9833		LEU	504	103. 508	53. 300	65. 143	1.00 27.73	В	C
ATOM	9834	C	LEU	504	102. 581	52. 998	69. 986	1.00 29.56	В	C
ATOM ATOM	9835	0 N	LEU	504	101.880	51. 991	70.016	1.00 27.71	В	0
ATOM	9836 9837	N CA	GLN GLN	505	103.458	53. 291	70. 938	1.00 31.52	В	N
ATOM	9838	CB	GLN	505 505	103. 641 104. 829	52. 425	72.096	1.00 33.96	В	C
ATOM	9839	CG	GLN	505 505	104. 829	52. 915 52. 836	72. 927 72. 200	1.00 36.96 1.00 42.44	В	C
ATOM	9840	CD	GLN	505	106. 652	51.408	71. 996	1.00 42.44	B B	C
ATOM	9841		GLN	505	107.079	50. 746	72.943	1.00 45.35	В	0
ATOM	9842		GLN	505	106. 581	50. 925	70. 758	1.00 45.49	В	N
ATOM	9843	C	GLN	505	102.375	52. 393	72.960	1.00 33.38	B	C
ATOM	9844	0	GLN	505	102.104	51.400	73.634	1.00 32.77	B	Ŏ
ATOM	9845	N	ASN	506	101.607	53.482	72.928	1.00 32.89	В	N
ATOM	9846	CA	ASN	506	100. 362	53. 590		1.00 32.38	В	C
ATOM	9847	CB	ASN	506	99. 997	55.062		1.00 35.05	В	С
ATOM	9848	CG	ASN	506	101.108	55.848	74. 629	1.00 39.34	В	C

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					FI	G. 4 -	202			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9849 9850 9851 9852 9853 9854 9855 9856 9857 9862 9863 9864 9865 9866 9867	ND2 C O N CA CB CG1 CG2 C O N CA CB CCB CCD OE1 NE2 C	VAL VAL GLN GLN GLN GLN GLN GLN GLN GLN	506 506 506 507 507 507 507 507 507 508 508 508 508 508	101. 426 101. 703 99. 208 98. 058 99. 516 98. 456 97. 287 98. 344 98. 717 99. 838 97. 639 97. 730 96. 486 96. 322 95. 190 95. 208 94. 199 97. 869	55. 608 56. 796 52. 933 52. 995 52. 305 51. 664 52. 293 51. 730 53. 811 50. 164 49. 676 49. 432 47. 992 47. 281 47. 397 46. 543 45. 312 47. 190 47. 740	75. 799 73. 903 72. 936 73. 377 71. 803 70. 974 69. 545 68. 755 69. 633 70. 825 70. 945 70. 567 70. 381 70. 917 72. 422 72. 958 72. 836 73. 561 68. 899	1. 00 41. 09 1. 00 39. 00 1. 00 30. 32 1. 00 30. 93 1. 00 26. 94 1. 00 25. 15 1. 00 23. 88 1. 00 21. 31 1. 00 25. 62 1. 00 26. 78 1. 00 25. 89 1. 00 25. 14 1. 00 27. 32 1. 00 29. 65 1. 00 30. 81 1. 00 31. 32 1. 00 29. 92 1. 00 23. 65	B B B B B B B B B B B B B B B B B B B	0 N C O N C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9868 9869 9870 9871 9872 9873 9874 9875 9876 9877 9880 9881 9882 9883 9884 9885 9886 9887	O N CA CB CG SD CC O N CA CB CG C O N CA CB CG CO N CA CB OG	GLN MET MET MET MET MET PRO PRO PRO PRO PRO PRO SER SER SER	508 509 509 509 509 509 510 510 510 511 511 511	96. 944 99. 046 99. 347 100. 667 100. 586 99. 279 100. 207 99. 425 99. 902 98. 951 98. 308 98. 974 97. 987 98. 248 100. 381 101. 249 100. 605 101. 916 102. 481 101. 653	47. 277 48. 063 47. 895 48. 578 50. 070 50. 681 50. 994 46. 440 45. 599 46. 121 47. 027 44. 751 44. 807 46. 171 44. 434 45. 301 43. 188 42. 782 41. 654 40. 500	68. 241 68. 385 66. 980 66. 655 66. 782 65. 719 64. 209 66. 579 67. 343 65. 365 64. 395 64. 854 63. 701 63. 141 64. 379 64. 353 63. 997 63. 521 64. 392 64. 358	1. 00 22. 60 1. 00 23. 78 1. 00 23. 48 1. 00 23. 41 1. 00 26. 19 1. 00 25. 78 1. 00 23. 44 1. 00 24. 15 1. 00 22. 69 1. 00 22. 87 1. 00 21. 97 1. 00 22. 62 1. 00 22. 72 1. 00 21. 20 1. 00 19. 97 1. 00 23. 02 1. 00 23. 02 1. 00 23. 03 1. 00 26. 12	B B B B B B B B B B B B B B B B B B B	0 N C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9888 9889 9890 9891 9892 9893 9894 9895 9896 9897	C O N CA CB CC CD CE NZ C	SER SER LYS LYS LYS LYS LYS LYS LYS LYS LYS	511 511 512 512 512 512 512 512 512 512	101. 773 100. 659 102. 906 102. 916 103. 490 103. 494 103. 820 103. 824 104. 160 103. 742	42. 299 42. 168 42. 035 41. 556 42. 615 42. 209 43. 411 43. 080 44. 299 40. 289	62. 094 61. 583 61. 458 60. 094 59. 168 57. 705 56. 851 55. 393 54. 622	1.00 23.35 1.00 24.92 1.00 22.83 1.00 22.46 1.00 21.81 1.00 23.24 1.00 24.28 1.00 23.13 1.00 24.52 1.00 22.87	B B B B B B B B	C O N C C C C C C

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					E 1 (	G. 4-	. 2			(Continued)
ATOM	9898	0	LYS	512	104. 803		60. 585	1.00 23.26	В	0
ATOM	9899	N	LYS	513	103. 235		59. 235	1.00 24.10	В	N
ATOM	9900	CA	LYS	513	103. 910		59.039	1.00 24.49	В	C
ATOM	9901	CB	LYS	513	103. 046	36. 923	59. 566	1.00 25.52	В	C
ATOM	9902	CG	LYS	513	103. 522	35. 537	59. 148	1.00 26.69	В	C
ATOM	9903	CD	LYS	513	102. 493	34. 471	59. 522	1.00 30.85	В	C
ATOM	9904	CE	LYS	513	102. 805	33. 124	58. 866	1.00 33.37	В	C
ATOM	9905	NZ	LYS	513	104. 131	32. 573	59. 287	1.00 36.04	В	N
ATOM	9906	C	LYS	513	104. 143	37. 888	57. 552	1.00 25.44	В	C
ATOM	9907	0	LYS	513	103. 196	37. 871	56. 763	1.00 27.00	В	0
ATOM	9908	N	LEU	514	105.409	37. 771	57. 171	1.00 24.62	В	N
ATOM	9909	CA	LEU	514	105.775	37. 561	55. 783	1.00 22.99	В	C
ATOM ATOM	9910	CB	LEU	514	106.870	38. 536	55. 380	1.00 22.15	В	C
ATOM	9911	CG	LEU	514	107. 307	38. 465	53. 925	1.00 21.19	В	C
ATOM	9912 9913		LEU LEU	514	106. 125	38. 790	53. 029	1.00 19.85	В	C
ATOM	9914	CDZ	LEU	514 514	108. 438	39. 435	53. 701	1.00 18.42	В	C
ATOM	9915	0	LEU	514 514	106. 292	36. 132 35. 725	55. 708	1.00 24.30	В	C
ATOM	9916	N	ASP	515	107. 123 105. 804	35. 361	56. 519 54. 747	1.00 24.87 1.00 25.31	В	0
ATOM	9917	CA	ASP	515	105. 804	33. 975	54. 634	1.00 25.31	В	N C
ATOM	9918	CB	ASP	515	100. 233	33. 156	54. 054 55. 757	1.00 28.58	B B	C
ATOM	9919	CG	ASP	515	106. 403	31. 929	56. 108	1.00 28.38	В	C
ATOM	9920		ASP	515	100.403	31. 474	55. 272	1.00 30.08	В	0
ATOM	9921	0D1		515	106. 216	31.409	57. 224	1.00 31.89	В	0
ATOM	9922	C	ASP	515	105. 805	33. 414	53. 282	1.00 26.17	В	C
ATOM	9923	ŏ	ASP	515	105.343	34. 157	52. 417	1.00 20.17	В	0
ATOM	9924	Ň	PHE	516	105. 940	32. 104	53. 103	1.00 25.46	В	N N
ATOM	9925	CA	PHE	516	105.571	31. 496	51.838	1.00 25.40	В	C
ATOM	9926	CB	PHE	516	106. 792	31.384	50. 930	1.00 23.83	В	
ATOM	9927	CG	PHE	516	107.811	30. 395	51.413	1.00 22.29	В	C C C
ATOM	9928		PHE	516	108. 896	30. 808	52. 176	1.00 22.23	В	C
ATOM	9929		PHE	516	107.678	29. 042	51.119	1.00 21.58	В	Ç
ATOM	9930	CE1		516	109.836	29. 885		1.00 21.89	B	č
ATOM	9931	CE2	PHE	516	108.609	28. 113	51.579	1.00 21.19	B	č
ATOM	9932	CZ	PHE	516	109.689	28. 536	52. 342	1.00 20.70	B	č
ATOM	9933		PHE	516	104.955	30. 117	51.954	1.00 26.95	B	č
ATOM	9934	0	PHE	516	105.063	29.452	52.980	1.00 28.94	B	Ŏ
ATOM	9935	N	ILE	517	104.307	29.707	50.872	1.00 27.35	B	Ň
ATOM	9936	CA	ILE	517	103.697	28.398	50.755	1.00 28.12	B	Ċ
ATOM	9937	CB	ILE	517	102.155	28.470	50.729	1.00 26.53	В	Č
ATOM	9938	CG2	ILE	517 '	101.645	29.073	52.016	1.00 27.39	В	C
ATOM	9939	CG1		517	101.682	29.296	49.537	1.00 27.43	В	С
ATOM	9940	CD1		517	100.175	29.486	49.486	1.00 26.37	В	C .
ATOM	9941	C	ILE	517	104. 202	27.896	49. 411	1.00 30.13	В	С
ATOM	9942	0	ILE	517	104. 575	28.697	48. 551	1.00 29.21	В	0
ATOM	9943		ILE	518	104. 239	26.581	49. 228	1.00 33.16	В	N
ATOM	9944		ILE	518	104. 709	26.029	47.969	1.00 36.01	В	С
ATOM	9945		ILE	518	105.680	24.867	48. 190	1.00 36.84	В	С
ATOM	9946	CG2	ILE	518	106. 133	24.311	46. 845	1.00 36.94	В	C



					FIC	3.4-	204			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9947 9948 9949 9950 9951 9952 9953 9954 9955 9956	CD1 C O N CA CB CG CD1	ILE ILE ILE LEU LEU LEU LEU LEU LEU	518 518 518 519 519 519 519 519 519	106. 884 107. 976 103. 558 102. 581 103. 679 102. 663 101. 753 100. 989 100. 051 100. 194 103. 388	25. 349 24. 296 25. 534 25. 000 25. 730 25. 294 26. 461 27. 144 28. 205 26. 107 24. 763	49. 000 49. 169 47. 114 47. 624 45. 808 44. 863 44. 474 45. 612 45. 045 46. 381 43. 637	1.00 38.21 1.00 40.77 1.00 37.38 1.00 38.97 1.00 39.11 1.00 40.68 1.00 39.71 1.00 39.82 1.00 39.14 1.00 40.51 1.00 42.22	B B B B B B B	C C C O N C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9958 9959 9960 9961 9962 9963 9964 9965 9966	O N CA CB CG OD1 ND2 C	LEU ASN ASN ASN ASN ASN ASN ASN	519 520 520 520 520 520 520 520 520	104. 028 103. 299 103. 963 103. 385 102. 045 101. 168 101. 871 105. 452 106. 004	25. 524 23. 453 22. 824 23. 337 22. 726 22. 634 22. 312 23. 114 23. 637	42. 910 43. 419 42. 285 40. 964 40. 639 41. 498 39. 386 42. 316 41. 348	1.00 42.60 1.00 43.53 1.00 44.57 1.00 46.39 1.00 48.97 1.00 50.54 1.00 50.46 1.00 44.13 1.00 44.64	B B B B B B	C N C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9967 9968 9969 9970 9971 9972 9973 9974	N CA CB CG CD OE1 OE2 C	GLU GLU GLU GLU GLU GLU GLU GLU	521 521 521 521 521 521 521 521	106. 097 107. 536 108. 272 109. 775 110. 401 110. 307 110. 986 107. 922 109. 034	22. 791 23. 012 22. 387 22. 642 22. 274 21. 091 23. 176 24. 486 24. 810	43. 431 43. 562 42. 368 42. 339 41. 004 40. 597 40. 361 43. 661 44. 072	1. 00 44. 10 1. 00 45. 15 1. 00 49. 07 1. 00 54. 49 1. 00 58. 04 1. 00 59. 07 1. 00 59. 78 1. 00 42. 18 1. 00 42. 85	B B B B B B	N C C C C O O C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9976 9977 9978 9979 9980 9981 9982 9983 9984	N CA CB OG1 CG2 C O N CA	THR THR THR THR THR THR THR LYS LYS	522 522 522 522 522 522 522 523 523	107. 014 107. 314 106. 605 107. 109 106. 866 106. 959 106. 028 107. 727 107. 559	25. 378 26. 800 27. 566 27. 115 29. 057 27. 441 27. 027 28. 464 29. 206	43. 283 43. 333 42. 198 40. 936 42. 318 44. 664 45. 350 45. 011 46. 245	1. 00 38. 59 1. 00 34. 63 1. 00 34. 21 1. 00 34. 20 1. 00 33. 69 1. 00 32. 83 1. 00 32. 75 1. 00 31. 06 1. 00 29. 30	B B B B B B	N C C O C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9985 9986 9987 9988 9989 9990 9991 9992 9993 9994 9995	CB CCD CE NZ C O N CA CB CG	LYS LYS LYS LYS LYS LYS PHE PHE PHE	523 523 523 523 523 523 524 524 524 524	108. 940 108. 934 110. 344 111. 045 112. 388 106. 819 107. 256 105. 692 104. 912 103. 529	29. 490 30. 329 30. 567 29. 265 29. 512 30. 519 31. 335 30. 711 31. 934 31. 637 31. 136	46. 838 48. 089 48. 607 48. 943 49. 545 45. 984 45. 173 46. 661 46. 517 45. 929	1.00 29.00 1.00 31.42 1.00 32.07 1.00 33.13 1.00 35.72 1.00 28.56 1.00 29.36 1.00 25.40 1.00 22.61 1.00 22.69 1.00 21.75	B B B B B B B B	C C C C N C O N C C

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					FI	G. 4	- 205			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9996 9997 9998 9999 10000 10002 10003 10004 10005 10006 10007 10008 10009	CD: CE: CZ: C O N CA CB CG CD2 CE2	PHE PHE PHE PHE TRP TRP TRP TRP TRP TRP	524 524 524 524 524	F I 0 103. 626 103. 541 103. 662 103. 576 103. 637 104. 765 104. 416 105. 016 104. 950 106. 059 107. 442 108. 393 109. 574 108. 366	29. 773 32. 031 29. 306 31. 579 30. 213	44. 247 43. 448 42. 935 42. 131 41. 871	1. 00 22. 19 1. 00 22. 40 1. 00 22. 45 1. 00 22. 01 1. 00 22. 70 1. 00 20. 73 1. 00 19. 19 1. 00 18. 35 1. 00 17. 31 1. 00 16. 81 1. 00 16. 14 1. 00 14. 70 1. 00 16. 70 1. 00 14. 22	B B B B B B B B	C C C C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10009 10010 10011 10012 10013 10014 10015 10016 10017 10018 10019 10020	CD1 NE1 CZ2 CZ3	TRP TRP TRP TRP TRP TRP TRP TYR TYR TYR	525 525 525 525 525 525 525 526 526 526	108. 360 108. 062 109. 344 110. 722 109. 506 110. 668 103. 630 102. 880 103. 361 102. 165 101. 053 101. 369	35. 411 34. 560 34. 176 34. 247 35. 204 34. 627 35. 280 35. 719 35. 368 36. 034 35. 030 34. 076	48. 086 48. 403 50. 508 52. 381 51. 829 49. 554 48. 675 50. 849 51. 341 51. 652 52. 778	1.00 14.22 1.00 15.59 1.00 14.99 1.00 17.11 1.00 14.40 1.00 15.16 1.00 17.78 1.00 17.96 1.00 16.97 1.00 18.30 1.00 19.10 1.00 21.69	B B B B B B B	C C N C C C O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10021 10022 10023 10024 10025 10026 10027 10028 10029 10030 10031	CD1 CE1 CD2	TYR TYR TYR TYR TYR TYR TYR TYR GLN GLN GLN	526 526 526 526 526 526 526 526 527 527	101. 132 101. 416 101. 902 102. 189 101. 945 102. 235 102. 540 103. 600 101. 676 101. 901 102. 417	34. 422 33. 531 32. 817 31. 922 32. 280 31. 370 36. 770 36. 536 37. 680 38. 417 39. 833	54. 110 55. 146 52. 509 53. 527 54. 840 55. 830 52. 609 53. 187 53. 024 54. 250 53. 978	1. 00 23. 52 1. 00 25. 02 1. 00 24. 93 1. 00 26. 65 1. 00 28. 49 1. 00 31. 26 1. 00 16. 76 1. 00 17. 09 1. 00 17. 75 1. 00 16. 32	B B B B B B B	C C C C C O C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10032 10033 10034 10035 10036 10037 10038 10039 10040 10041 10042 10043 10044	CG CD OE1	GLN GLN	527 527 527 527 527 527 528 528 528 528 528 528	101. 462 101. 935 103. 016 101. 121 100. 556 99. 519 100. 575 99. 346 99. 076 98. 575 98. 325 96. 628 99. 458	40. 740 42. 188 42. 502 43. 079 38. 477 38. 439 38. 532 38. 608 37. 295 36. 178 34. 650 34. 772 39. 720	53. 234 53. 213 52. 707 53. 771 54. 930 54. 269 56. 253 57. 018 57. 748 56. 859 57. 776	1. 00 10. 32 1. 00 15. 60 1. 00 16. 43 1. 00 13. 50 1. 00 15. 38 1. 00 19. 32 1. 00 19. 02 1. 00 20. 93 1. 00 21. 02 1. 00 23. 54 1. 00 23. 43 1. 00 26. 01 1. 00 20. 94	B B B B B B B B B	C C O N C O N C C C C C

					FI	G. 4	- 206	•		(Continued)
ATOM	10045	0	<b>ነ</b> መጥ	500					_	
ATOM ATOM	10045 10046	O N	MET ILE		100.471				В	0
ATOM	10040	CA	ILE	529 529	98. 432 98. 428				В	N
ATOM	10048	CB	ILE	529	97. 718				В	C
ATOM	10049		2 ILE	529	97. 656				B B	C
ATOM	10050		ILE	529	98. 469				В	C C
ATOM	10051	CD		529	99. 934		57. 537		В	Č
ATOM	10052	C	ILE	529	97. 656		60. 225	1.00 20.15	В	č
ATOM	10053	0	ILE	529	96. 457		60. 124		В	ŏ
ATOM	10054	N	LEU	530	98. 359		61.302		B	Ň
ATOM	10055	CA	LEU	530	97. 717		62.420		B	Ċ
ATOM	10056	CB	LEU	530	98. 649	38.907	62.976	1.00 19.85	В	Ċ
ATOM	10057	CG	LEU	530	99. 086	37. 875	61.931	1.00 19.34	В	С
ATOM	10058		LEU	530	100. 238		62.461	1.00 20.33	В	C
ATOM	10059		LEU LEU	530	97. 897		61.562	1.00 19.04	В	C
ATOM	10060	C	LEU	530	97. 294	40. 930	63. 521	1.00 22.34	В	C
ATOM ATOM	10061	0 N	LEU	530	98.006	41.878	63. 854	1.00 23.45	В	0
ATOM	10062 10063	N CD	PRO PRO	531	96. 104	40.697	64. 088	1.00 23.19	В	N
ATOM	10063	CA	PRO	531 531	95. 105 95. 600	39. 684	63. 711	1.00 22.71	В	C
ATOM	10065	CB	PRO	531	94. 188	41.545 41.002	65. 169	1.00 24.33	В	C C C
ATOM	10066	CG	PRO	531	94. 276	39. 588	65. 404 64. 967	1.00 22.74	В	C
ATOM	10067	C	PRO	531	96. 490	41.438	66.407	1.00 23.03 1.00 25.18	B B	C
ATOM	10068	Ŏ	PRO	531	97. 244	40. 478	66. 562	1.00 24.64	В	0
ATOM	10069	N	PRO	532	96. 424	42. 433	67. 300	1.00 24.04	В	N N
ATOM	10070	CD	PRO	532	95. 502	43. 581	67. 326	1.00 25.36	В	Č
ATOM	10071	CA	PR0	532	97. 246	42.397	68. 513	1.00 27.91	B	č
ATOM	10072	CB	PRO	532	96.868	43.698	69.216	1.00 27.08	B	č
ATOM	10073	CG	PRO	532	95. 443	43.897	68.793	1.00 26.25	В	Č
ATOM	10074	C	PRO	532	96. 945	41.160	69.369	1.00 29.25	В	C
ATOM	10075	0	PRO	532	95. 865	40.579	69.279	1.00 29.62	В	0
ATOM	10076	N	HIS	533	97. 909	40.756	70.187	1.00 30.65	В	N
ATOM ATOM	10077 10078	CA	HIS	533	97. 738	39.602	71.061	1.00 31.99	В	C
ATOM	10078	CB CG	HIS HIS	533 533	96. 749	39. 945	72.172	1.00 32.50	В	C
ATOM	10013		HIS	533	96. 981 96. 168	41. 293	72. 783	1.00 35.12	В	C
ATOM	10081		HIS	533	98. 181	42. 370 41. 653	72. 903 73. 358	1.00 36.18	В	C
ATOM	10082		HIS	533	98. 096	42. 892	73.807	1.00 35.49	В	N
ATOM	10083	NE2	HIS	533	96. 885	43. 350	73. 544	1.00 36.37 1.00 37.01	В	C
ATOM	10084	C	HIS	533	97. 249	38. 382	70. 286	1.00 37.01	B B	N C
ATOM	10085	0	HIS	533	96. 447	37. 590	70. 791	1.00 33.21	В	0
ATOM	10086	N	PHE	534	97. 739	38. 243	69.058	1.00 33.50	В	N
ATOM	10087	CA	PHE	534	97. 374	37. 125	68. 200	1.00 34.63	В	C
ATOM	10088	CB	PHE	534	98. 283	37. 085	66.970	1.00 32.35	B	č
ATOM	10089	CG	PHE	534	97. 997	35.942	66.041	1.00 32.06	B	č
ATOM	10090	CD1		534	96. 790	35. 871	65.354	1.00 32.10	В	Ċ
ATOM	10091	CD2		534	98. 936	34. 938	65.848	1.00 32.66	В	C
ATOM	10092	CE1		534	96. 522	34. 819	64. 486	1.00 31.59	В	С
ATOM	10093	CE2	rne	534	98. 679	33. 879	64.982	1.00 32.91	В	C

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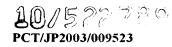
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					FIC	3. 4 ·	207			, , , , , , , , , , , , , , , , , , , ,
ATOM	10094	CZ	PHE	534	97.469	33. 820	64. 298	1.00 32.93	В	С
ATOM	10095	C	PHE	534	97. 503	35.806	68.941	1.00 36.77	В	C
ATOM	10096	0	PHE	534	98. 532	35. 534	69.565	1.00 37.84	B	0
ATOM	10097	N	ASP	535	96.463	34. 982	68.868	1.00 39.07	В	N
ATOM	10098	CA	ASP	535	96.480	33.680	69.523	1.00 40.37	В	С
ATOM	10099	CB	ASP	535	95. 458	33.639	70.655	1.00 42.55	В	C
ATOM	10100	CG	ASP	535	95. 544	32. 363	71.465	1.00 45.66	В	С
ATOM	10101		ASP	535	94. 783	32. 227	72.445	1.00 49.45	В	0
ATOM	10102		ASP	535	96.372	31.494	71.125	1.00 46.59	В	0
ATOM	10103	C	ASP	535	96. 159	32.601	68. 503	1.00 39.36	В	С
ATOM	10104	0	ASP	535	95. 047	32.540	67. 996	1.00 39.17	В	0
ATOM	10105	N	LYS	536	97. 135	31.746	68. 216	1.00 40.23	В	N
ATOM	10106	CA	LYS	536	96. 964	30.680	67. 233	1.00 41.20	В	C
ATOM	10107	CB	LYS	536	98. 302	30.001	66.947	1.00 42.62	В	С
ATOM	10108	CG	LYS	536	98. 266	29. 089	65. 731	1.00 46.75	В	C
ATOM	10109	CD	LYS	536	99. 657	28. 577	65. 355	1.00 49.06	В	C
ATOM	10110	CE	LYS	536	99. 624	27. 800	64.040	1.00 48.68	В	C
ATOM	10111	NZ	LYS	536	98. 648	26. 676	64.079	1.00 48.77	В	N
ATOM ATOM	10112	C	LYS	536	95. 937	29. 620	67. 607	1.00 40.95	В	C
ATOM	10113 10114	O N	LYS SER	536	95. 577	28. 785	66.778	1.00 41.99	В	0
ATOM	10114	CA	SER	537 537	95.464	29. 649	68. 848	1.00 40.73	В	N
ATOM	10116	CB	SER	537	94. 469 94. 598	28. 681	69. 296	1.00 40.33	В	C
ATOM	10117	OG	SER	537	94. 398 94. 434	28. 438 29. 636	70.805	1.00 40.23	В	C
ATOM	10118	C	SER	537	93. 064	29. 179	71. 541 68. 968	1.00 40.12 1.00 40.20	В	0
ATOM	10119	ŏ	SER	537	92. 103	28. 412	68. 977	1.00 40.20	B B	C
ATOM	10120	N	LYS	538	92. 951	30. 469	68. 674	1.00 40.87	В	O N
ATOM	10121	CA	LYS	538	91.666	31.067	68. 337	1.00 33.23	В	C
ATOM	10122	CB	LYS	538	91.629	32. 517	68. 817	1.00 39.07	В	C
ATOM	10123	CG	LYS	538	92. 298	32. 747	70. 170	1.00 41.74	B	Č
ATOM	10124	CD	LYS	538	91.534	32. 100	71. 316	1.00 44.86	B	Č
ATOM	10125	CE	LYS	538	90.186	32.773	71.540	1.00 46.82	B	Č
ATOM	10126	NZ	LYS	538	89.417	32. 121	72.636	1.00 47.36	B	N
ATOM	10127	С	LYS	538	91.507	31.028	66.819	1.00 35.00	В	Č
ATOM	10128	0	LYS	538	92.464	30.754	66. 101	1.00 34.33	В	0
ATOM	10129	N	LYS	539		31.288	66.335	1.00 33.57	В	N
ATOM	10130	CA	LYS	539		31.302	64.895	1.00 32.92	В	C
ATOM	10131	CB	LYS	539 -		30. 197	64.510	1.00 32.99	В	С
ATOM	10132		LYS	539		28. 887	64. 143	1.00 36.07	В	C
ATOM	10133		LYS	539		27. 739	63. 893	1.00 39.32	В	С
ATOM	10134		LYS	539		28.059	62.816	1.00 39.62	В	С
ATOM	10135		LYS	539 530		28.969		1.00 39.49	В	N
ATOM ATOM	10136 10137		LYS	539 520		32.666		1.00 31.07	В	C
ATOM	10137	N N	LYS TYR	539 540		33.087		1.00 30.44	В	0
ATOM	10138	CA	TYR	540 540		33. 356		1.00 27.48	В	N
ATOM	10133	CB	TYR	540 540		34. 682 35. 624		1.00 24.82	В	C
ATOM	10141		TYR	540		35. 702		1.00 23.82 1.00 23.61	B B	C
ATOM	10142	CD1		540		34. 627		1.00 21.98	В	C C
				•	0 0 1 1	J 1. J	~ ** 000	1.00 21.00	J	U

ATOM 10143 CE1 TYR 540 93.321 34.708 66.130 1.00 21.65 B C ATOM 10144 CD2 TYR 540 91.810 36.863 65.257 1.00 22.89 B C ATOM 10145 CE2 TYR 540 93.261 35.875 66.881 1.00 22.87 B C ATOM 10146 CZ TYR 540 93.261 35.875 66.881 1.00 22.87 B C ATOM 10147 OH TYR 540 93.950 35.965 66.802 1.00 23.97 B O ATOM 10148 C TYR 540 89.353 34.694 61.749 1.00 23.62 B C ATOM 10149 OT TYR 540 89.355 34.694 61.749 1.00 23.62 B C ATOM 10150 N PRO 541 88.467 35.660 61.452 1.00 21.89 B N ATOM 10151 CD PRO 541 87.820 36.667 62.320 1.00 23.93 B N ATOM 10152 CA PRO 541 87.823 36.666 62.320 1.00 20.52 B C ATOM 10152 CA PRO 541 87.917 35.719 60.095 1.00 20.52 B C ATOM 10153 CB PRO 541 86.770 36.717 60.228 1.00 20.30 B C ATOM 10155 C PRO 541 87.243 37.629 61.317 1.00 20.36 B C ATOM 10156 N PRO 541 88.677 35.666 51.87 10.00 20.36 B C ATOM 10157 N LEU 542 89.077 36.266 59.276 1.00 19.86 B C ATOM 10156 C PRO 541 90.026 36.799 59.841 1.00 19.90 B O ATOM 10157 N LEU 542 89.028 36.147 57.961 1.00 19.86 B C ATOM 10158 CA LEU 542 91.037 35.776 54.10 19.38 B N ATOM 10156 C PRO 541 90.026 36.799 59.841 1.00 19.90 B O ATOM 10156 CD LEU 542 99.013 36.655 57.169 1.00 18.21 B C ATOM 10156 CB LEU 542 99.03 36.655 57.169 1.00 18.21 B C ATOM 10157 N LEU 542 89.028 36.147 57.961 1.00 19.38 B N ATOM 10160 CG LEU 542 99.137 36.655 57.169 1.00 18.21 B C ATOM 10161 CD LEU 542 89.028 36.147 57.561 1.00 19.38 B N ATOM 10163 C LEU 542 99.03 39.655 55.862 1.00 17.89 B C ATOM 10166 CG LEU 543 99.273 55.768 55.816 1.00 19.24 B C ATOM 10167 CB LEU 543 99.286 38.564 55.594 1.00 14.81 B N ATOM 10167 CB LEU 543 99.386 38.564 55.594 1.00 17.31 B C ATOM 10167 CB LEU 543 99.386 38.564 55.594 1.00 14.81 B N ATOM 10168 CG LEU 543 99.386 38.564 55.594 1.00 14.81 B N ATOM 10167 CB LEU 543 99.386 38.564 55.594 1.00 18.39 B C ATOM 10167 CB LEU 543 99.386 38.564 55.594 1.00 18.39 B C ATOM 10167 CB LEU 543 99.386 38.564 55.594 1.00 18.39 B C ATOM 10168 CG LEU 544 92.213 38.807 51.480 1.00 18.39 B C ATOM 10170 CD LEU 543 99.386 38.564 55.594 1.00 18.39 B C ATOM 10170 CD LEU 543 99.586 99											(Continued)
ATOM 10144 CD2 TYR 540 91.810 36.863 65.257 1.00 22.89 B C ATOM 10145 CE2 TYR 540 92.507 36.955 66.449 1.00 22.877 B C ATOM 10146 CT TYR 540 93.961 35.875 66.881 1.00 22.877 B C ATOM 10147 OH TYR 540 93.950 35.965 68.062 1.00 23.97 B O ATOM 10148 C TYR 540 89.3561 35.875 66.881 1.00 22.877 B C ATOM 10149 O TYR 540 89.3561 34.694 61.749 1.00 23.97 B O ATOM 10149 O TYR 540 89.670 33.842 60.925 1.00 23.93 B O ATOM 10150 N PRO 541 88.457 35.606 61.452 1.00 21.89 B N ATOM 10151 CD PRO 541 87.820 36.667 62.320 1.00 21.89 B N ATOM 10151 CD PRO 541 87.820 36.667 62.320 1.00 21.82 B C ATOM 10153 CB PRO 541 87.927 36.717 60.095 1.00 20.52 B C ATOM 10153 CB PRO 541 87.243 37.629 61.317 1.00 20.36 B C ATOM 10155 CP PRO 541 87.243 37.629 61.317 1.00 20.36 B C ATOM 10155 CB PRO 541 89.077 36.266 59.276 1.00 19.86 B C ATOM 10156 CP PRO 541 89.077 36.266 59.276 1.00 19.86 B C ATOM 10157 N LEU 542 89.028 36.147 57.961 1.00 19.88 B N ATOM 10158 CA LEU 542 99.133 36.655 57.169 1.00 19.38 B N ATOM 10159 CB LEU 542 99.133 36.655 57.169 1.00 19.38 B N ATOM 10160 CD LEU 542 99.215 35.768 55.816 1.00 19.24 B C ATOM 10160 CD LEU 542 99.225 35.768 55.816 1.00 19.24 B C ATOM 10161 CD LEU 542 99.226 36.725 57.169 1.00 19.38 B N ATOM 10166 CD LEU 542 99.226 37.4721 56.055 1.00 17.89 B C ATOM 10166 CA LEU 542 99.236 37.458 55.282 1.00 18.08 B C ATOM 10166 CA LEU 542 99.3296 37.7458 55.282 1.00 18.08 B C ATOM 10166 CA LEU 543 89.677 37.458 55.282 1.00 18.08 B C ATOM 10166 CA LEU 543 89.677 37.458 55.282 1.00 18.08 B C ATOM 10167 CB LEU 543 89.409 43.294 54.454 1.00 19.31 B C ATOM 10167 CB LEU 543 89.409 43.294 54.454 1.00 11.87 B C ATOM 10167 CB LEU 543 89.409 43.294 54.454 1.00 11.87 B C ATOM 10167 CB LEU 543 89.409 43.294 54.454 1.00 11.87 B C ATOM 10167 CB LEU 543 89.409 43.294 54.454 1.00 11.87 B C ATOM 10170 C LEU 544 93.163 37.609 50.539 1.00 16.34 B C ATOM 10170 C LEU 544 93.163 37.609 50.539 1.00 16.19 B C ATOM 10170 C LEU 544 93.163 37.231 49.608 1.00 14.91 B C ATOM 10170 C LEU 544 93.264 93.265 40.925 50.997 1.00 15.36 B C ATOM 101						FIC	G. 4-	208			(0 022 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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ATOM 10189 N VAL 546 93.567 42.098 47.881 1.00 15.03 B N											
ATOM 10190 CA VAL 546 94.116 41.667 46.614 1.00 17.39 B C			CA	VAL							
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					FI	G. 4	209			(Continued)
ATOM	10192	CG1	VAL	546	93. 717	40. 124	44. 647	1.00 17.87	В	С
ATOM	10193	CG2	VAL	546	93. 109			1.00 20.93	В	Č
ATOM	10194	C	VAL	546	94. 343		45. 542	1.00 17.09	В	C
ATOM	10195	0	VAL	546	93. 601	43.694	45. 447	1.00 18.12	В	0
ATOM	10196	N	TYR	547	95. 391	42.519	44. 745	1.00 15.70	В	N
ATOM	10197	CA	TYR	547	95. 670		43. 595	1.00 14.90	· B	С
ATOM	10198	CB	TYR	547	96. 838		43. 821	1.00 12.56	В	C
ATOM	10199	CG	TYR	547	97. 008		42.622	1.00 12.84	В	C
ATOM	10200		TYR	547	98. 064		41.727	1.00 12.01	В	C
ATOM	10201		TYR	547	98. 165		40. 578	1.00 9.97	В	C
ATOM	10202		TYR	547	96. 057		42. 331	1.00 11.82	В	C
ATOM	10203		TYR	547	96. 149		41. 183	1.00 8.62	В	C
ATOM	10204	CZ	TYR	547	97. 204		40.314	1.00 10.60	В	C
ATOM	10205	OH	TYR	547	97. 304		39. 179	1.00 12.10	В	0
ATOM	10206	C	TYR	547	96. 011	42. 392	42. 485	1.00 13.60	В	C
ATOM	10207	0	TYR	547	95. 244		41.548	1.00 13.39	В	0
ATOM	10208	N CA	ALA	548 548	97.170		42.608	1.00 13.66	В	N
ATOM ATOM	10209	CA	ALA	548	97. 594		41.672	1.00 14.14	В	C
ATOM	10210 10211	CB C	ALA ALA	548 549	96.658	39. 518	41.807	1.00 11.57	В	C
ATOM	10211	0	ALA	548 548	97. 732 97. 681	41. 105 40. 234	40. 207	1.00 13.67	В	C
ATOM	10212	N	GLY	549	97. 905	40. 234	39. 340	1.00 14.21	В	0
ATOM	10213	CA	GLY	549	98. 078	42. 765	39. 913 38. 524	1.00 13.87 1.00 12.26	В	N
ATOM	10215	C	GLY	549	99. 405	42. 103	38. 046	1.00 12.20	B B	C C
ATOM	10216	ŏ	GLY	549	100. 179	41.717	38. 855	1.00 12.10	В	0
ATOM	10217	Ň	PRO	550	99. 700	42. 256	36. 739	1.00 12.33	В	N N
ATOM	10218	CD	PRO	550	98. 853	42. 760	35. 644	1.00 13.38	В	
ATOM	10219	CA	PRO	550	100. 969	41.736	36. 217	1.00 13.32	В	C
ATÓM	10220	CB	PRO	550	100.863	42.007	34. 721	1.00 14.56	B	C C C
ATOM	10221	CG	PR0	550	99. 391	42.015	34. 473	1.00 14.10	B	č
ATOM	10222	С	PR0	550	102.166	42.459	36.832	1.00 13.86	B	č
ATOM	10223	0	PR0	550	102. 248	43.683	36. 785	1.00 13.45	· B	Ö
ATOM	10224	N	CYS	551	103.088	41.694	37.405	1.00 14.79	В	N
ATOM	10225	CA	CYS	551	104. 283	42. 244	38.027	1.00 15.51	В	C
ATOM	10226	CB	CYS	551	105. 035	43. 139	37.036	1.00 17.05	В	C
ATOM	10227	SG	CYS	551	106. 732	43. 567	37. 543	1.00 17.09	В	S
ATOM	10228	C	CYS	551	103. 967	43.018	39. 312	1.00 16.05	В	C
ATOM	10229	0	CYS	551	104. 693	43. 938	39. 702	1.00 15.36	В	0
ATOM	10230	N	SER	552	102. 883	42.631	39. 976	1.00 15.15	В	N
ATOM	10231	CA	SER	552	102. 494	43. 268	41. 229	1.00 14.65	В	C
ATOM	10232	CB	SER	552	100. 990	43.149		1.00 14.47	В	C
ATOM	10233	OG C	SER	552 552	100.604	41.789		1.00 14.39	В	0
ATOM ATOM	10234 10235	C	SER	552	103. 201	42.608	42.418	1.00 15.21	В	C
ATOM	10235	O N	SER GLN	552	103. 882	41.585		1.00 15.34	В	0
ATOM	10230		GLN	553 553		43. 201		1.00 14.73	В	N
ATOM	10237		GLN	ออง 553		42.647		1.00 14.31	В	C
ATOM	10238		GLN	553		43. 017 42. 332		1.00 13.21 1.00 15.05	B B	C C
ATOM	10233		GLN	553				1.00 15.05	В	C
	10210	()D	JULI	000	101.003	74. UUU	TU. UJU	1.00 10.00	D	U

					FI	G. 4	- 210			(Continued	1)
ATOM ATOM ATOM	10241 10242 10243	NE 2 C	GLN GLN GLN	553 553	107. 812 108. 138 102. 921	41.556 43.166	45. 773 46. 012	1.00 16.56 1.00 15.50 1.00 14.58	B B B	0 N C	
ATOM ATOM ATOM	10244 10245 10246	O N CA	GLN LYS LYS	553 554 554	103. 148 102. 031 101. 284	42. 344 42. 734	47.754	1.00 14.77 1.00 14.78 1.00 16.57	В В В	O N C	
ATOM ATOM ATOM	10247 10248 10249	CB CG CD	LYS LYS LYS	554 554 554	99. 817 99. 031 99. 047	43. 142 44. 612	47. 633 46. 630 47. 000	1.00 17.81 1.00 18.63 1.00 18.55	В В В	C C C	
ATOM ATOM ATOM	10250 10251 10252	CE NZ C	LYS LYS LYS	554 554 554	98. 228 96. 769 101. 890	44. 902 44. 771 42. 148	48. 261 48. 035 49. 024	1.00 18.33 1.00 13.33 1.00 16.05	B B B	C N C	
ATOM ATOM ATOM	10253 10254 10255	O N CA	LYS ALA ALA	554 555 555	101. 424 102. 939 103. 622	42. 429 41. 350 40. 730	50. 124 48. 866 50. 004	1.00 17.37 1.00 15.91 1.00 15.84	В В В	O N C	
ATOM ATOM ATOM	10256 10257 10258	CB C	ALA ALA ALA	555 555 555	103.656 105.041 105.954	39. 210 41. 246 40. 691	49. 833 50. 142 49. 539	1.00 15.51 1.00 14.91 1.00 15.57	B B B	C C O	
ATOM ATOM ATOM	10259 10260 10261	N CA CB	ASP ASP ASP	556 556 556	105. 233 106. 571 106. 801	42. 304 42. 854 44. 085	50. 924 51. 134 50. 243	1.00 16.20 1.00 16.65 1.00 17.94	B B B	N C C	
ATOM ATOM ATOM	10262 10263 10264		ASP ASP ASP	556 556 556	105. 750 105. 355 105. 327	45. 159 45. 429 45. 751	50. 430 51. 583 49. 415	1.00 19.95 1.00 22.16 1.00 21.01	B B B	C 0 0	
ATOM ATOM ATOM	10265 10266 10267	C O N	ASP ASP THR	556 556 557	106. 862 106. 046 108. 039	43. 202 42. 962 43. 762	52. 597 53. 480 52. 847	1.00 16.87 1.00 15.15 1.00 17.93	B B B	C O N	
ATOM ATOM ATOM	10268 10269 10270	CA CB OG1		557 557 557	108. 443 109. 923 110. 687	44. 132 43. 826 44. 589	54. 200 54. 396 53. 454	1.00 18.07 1.00 18.59 1.00 20.98	B B B	C C O	
ATOM ATOM ATOM	10271 10272 10273	CG2 C O	THR THR	557 557 557	110. 188 108. 203 108. 776	42. 358 45. 616 46. 151	54. 157 54. 531 55. 479	1.00 19.55 1.00 17.89 1.00 16.94	B B B	C C O	
ATOM ATOM ATOM	10274 10275 10276	N CA CB	VAL VAL VAL	558 558 558	107. 348 107. 049 106. 483	46. 272 47. 682 48. 302	53. 754 53. 964 52. 676	1.00 16.56 1.00 14.93 1.00 14.99	В В В	N C C	
ATOM ATOM ATOM	10277 10278 10279	CG1 CG2 C	VAL VAL	558 558 558	106. 033 107. 544 106. 058	49. 733 48. 247 47. 921	52. 940 51. 568 55. 109	1.00 13.18 1.00 13.02 1.00 15.99	B B B	C C C	
ATOM ATOM ATOM	10280 10281 10282	O N CA	VAL PHE PHE	558 559 559	105. 060 106. 348 105. 484	47. 211 48. 923 49. 269	55. 238 55. 941 57. 069	1.00 13.36 1.00 15.43 1.00 14.56	В В В	O N C	
ATOM ATOM ATOM	10283 10284 10285	CB CG CD1		559 559 559	106. 303 105. 469 105. 064	49. 933 50. 504 49. 712	58. 173 59. 282 60. 347	1.00 12.72 1.00 11.04 1.00 10.65	B B B	C C C	
ATOM ATOM ATOM ATOM	10286 10287 10288 10289	CD2 CE1 CE2 CZ	PHE	559 559 559 559	105. 056 104. 260 104. 251 103. 855	51. 833 50. 232 52. 360 51. 554	59. 244 61. 356 60. 252 61. 307	1.00 12.10 1.00 8.83 1.00 10.43 1.00 8.93	B B B B	C C C	



					FIC	3. 4 -	211			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10290 10291 10292 10293 10294 10295 10296 10297 10298 10299 10300 10301 10302 10303 10304 10305 10306 10307 10308 10309 10310 10311 10312 10313 10314	O N CA CB CZ NH1 NH2 C O N CA CB CCD1 CD2 C O N CA CB CC CCD1 CCD2 C C C C C C C C C C C C C C C C C	ARG ARG ARG LEU LEU LEU LEU LEU LEU ASN ASN ASN	559 559 560 560 560 560 560 560 560 561 561 561 561 562 562 562 562	104. 395 104. 696 103. 137 102. 029 101. 354 102. 248 101. 491 102. 322 103. 126 103. 203 103. 887 100. 962 100. 661 100. 403 99. 325 99. 626 100. 694 100. 901 100. 275 98. 114 97. 987 97. 222 96. 071 96. 462 96. 924	50. 230 51. 255 49. 907 50. 744 50. 117 49. 988 49. 421 48. 486 48. 828 50. 090 47. 915 50. 980 50. 100 52. 183 52. 551 53. 872 55. 299 52. 934 52. 725 53. 734 51. 748 51. 841 51. 267 49. 823	56. 592 56. 000 56. 865 56. 421 55. 185 53. 954 52. 755 51. 999 51. 002 50. 614 50. 421 57. 486 58. 291 57. 483 58. 392 59. 100 60. 189 60. 698 61. 319 57. 465 56. 577 55. 220 55. 318	1. 00 14. 21 1. 00 14. 64 1. 00 13. 77 1. 00 14. 06 1. 00 12. 20 1. 00 11. 36 1. 00 10. 73 1. 00 13. 38 1. 00 14. 76 1. 00 19. 68 1. 00 16. 46 1. 00 14. 74 1. 00 16. 54 1. 00 13. 55 1. 00 13. 55 1. 00 11. 68 1. 00 12. 53 1. 00 8. 41 1. 00 10. 22 1. 00 12. 59 1. 00 10. 30 1. 00 12. 69 1. 00 14. 07 1. 00 14. 26	B B B B B B B B B B B B B B B B B B B	C O N C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10314 10315 10316 10317 10318 10319 10320 10321 10322 10323 10324 10325 10326 10327 10328 10329 10330 10331 10332 10333 10334 10335 10336	OD1 ND2 C O N CA CB CC CD2 CE2 CE3 CD1 NE1	ASN ASN ASN TRP TRP TRP TRP TRP TRP TRP TRP TRP TRP	562 562 562 562 563 563 563 563 563 563 563 563 563 564 564 564 564 564	96. 924 97. 566 96. 582 94. 818 94. 712 93. 872 92. 616 91. 770 90. 365 89. 623 88. 330 89. 927 89. 512 88. 289 87. 346 88. 951 87. 673 92. 880 92. 279 93. 790 94. 124 95. 216	49. 823 49. 309 49. 157 51. 139 50. 793 50. 281 50. 132 49. 719 48. 721 48. 684 47. 856 50. 237 49. 617 47. 816 46. 995 46. 980 48. 919 48. 562 48. 161 46. 841 46. 186	55. 318 54. 407 56. 423 57. 086 58. 260 56. 178 56. 502 55. 244 55. 511 54. 804 55. 369 53. 745 56. 456 56. 373 54. 911 53. 290 53. 872 57. 119 58. 132 56. 515 57. 042 56. 197	1. 00 14. 26 1. 00 15. 38 1. 00 11. 43 1. 00 14. 89 1. 00 16. 50 1. 00 15. 26 1. 00 15. 35 1. 00 13. 87 1. 00 15. 58 1. 00 12. 95 1. 00 13. 17 1. 00 10. 64 1. 00 13. 99 1. 00 14. 03 1. 00 13. 35 1. 00 9. 50 1. 00 12. 48 1. 00 16. 18 1. 00 17. 44 1. 00 17. 65 1. 00 16. 15	B B B B B B B B B B B B B B B B B B B	C O N C C C C C C C C C C C C C C C C C
ATOM	10337 10338	0 N	ALA THR	564 565	94. 256	46. 973 46. 127 48. 037	58. 489 59. 320 58. 793	1. 00 18. 07 1. 00 18. 92 1. 00 17. 73	B B B	C O N

							(Continued)
					FIG. 4-212		(00111111100)
ATOM	10339	CA	THR	565	95. 817 48. 259 60. 159 1. 00 17. 29	В	С
ATOM	10340	CB	THR		96.626 49.551 60.294 1.00 17.13	В	č
ATOM	10341		l THR	565	97. 677 49. 570 59. 330 1. 00 20. 36	В	ŏ
ATOM	10342		2 THR	565	97. 238 49. 636 61. 676 1. 00 18. 23	В	č
ATOM	10343	Č	THR	565	94. 665 48. 355 61. 157 1. 00 15. 84	B	č
ATOM	10344	Õ	THR	565	94. 738 47. 804 62. 249 1. 00 14. 07	B	ŏ
ATOM	10345	Ň	TYR	566	93.605 49.061 60.781 1.00 15.76	В	Ň
ATOM	10346	CA	TYR	566	92. 455 49. 204 61. 664 1. 00 17. 74	B	Č
ATOM	10347	CB	TYR	566	91. 543 50. 335 61. 177 1. 00 15. 61	B	č
ATOM	10348	CG	TYR	566	90.067 50.039 61.311 1.00 17.40	B	Č
ATOM	10349	CD1		566	89. 303 49. 688 60. 195 1. 00 17. 77	B	č
ATOM	10350	CE 1	TYR	566	87. 947 49. 390 60. 310 1. 00 15. 12	B	č
ATOM	10351		TYR	566	89. 432 50. 086 62. 556 1. 00 18. 30	B	Č
ATOM	10352	CE2	TYR	566	88. 073 49. 789 62. 682 1. 00 17. 35	B	Č
ATOM	10353	CZ	TYR	566	87. 340 49. 441 61. 550 1. 00 17. 10	В	Č
ATOM	10354	OH	TYR	566	86.005 49.137 61.662 1.00 17.63	В	0
ATOM	10355	C	TYR	566	91.667 47.899 61.777 1.00 19.12	В	C
ATOM	10356	0	TYR	566	91. 249 47. 517 62. 871 1. 00 20. 12	В	0
ATOM	10357	N	LEU	567	91.481 47.211 60.654 1.00 19.08	В	N
ATOM	10358	CA	LEU	567	90. 735 45. 959 60. 648 1. 00 19. 66	В	C
ATOM	10359	CB	LEU	567	90. 606 45. 419 59. 223 1. 00 18. 00	В	C
ATOM	10360	CG	LEU	567	89. 728 46. 252 58. 284 1. 00 18. 48	В	C
ATOM	10361		LEU	567	89. 735 45. 628 56. 889 1. 00 19. 22	В	C
ATOM	10362		LEU	567	88. 310 46. 325 58. 835 1. 00 15. 78	В	C
ATOM	10363	C	LEU	567	91. 355 44. 898 61. 544 1. 00 20. 80	В	C
ATOM	10364	0	LEU	567	90. 645 44. 102 62. 157 1. 00 23. 88	В	0
ATOM	10365	N	ALA	568	92.677 44.883 61.628 1.00 19.62	В	N
ATOM	10366	CA	ALA	568	93. 347 43. 898 62. 466 1. 00 20. 08	В	C
ATOM	10367	CB	ALA	568	94. 746 43. 601 61. 907 1. 00 18. 06	В	С
ATOM	10368	C	ALA	568	93. 451 44. 362 63. 924 1. 00 20. 52	В	C
ATOM	10369	0 N	ALA	568	93. 319 43. 569 64. 849 1. 00 20. 37	В	0
ATOM ATOM	10370	N	SER	569	93. 674 45. 653 64. 128 1. 00 20. 79	В	N
	10371 10372	CA	SER	569	93. 827 46. 182 65. 474 1. 00 21. 75	В	C
ATOM ATOM	10372	CB OG	SER SER	569	94. 520 47. 545 65. 401 1. 00 21. 85	В	C
ATOM	10373	C	SER	569 569	94. 546 48. 188 66. 657 1. 00 22. 64	В	0
ATOM	10375	0	SER	569	92. 525 46. 297 66. 267 1. 00 22. 83 92. 505 46. 029 67. 470 1. 00 22. 38	В	C
ATOM	10376	N	THR	570		В	0
ATOM	10377	CA	THR	570		В	N
ATOM	10378	CB	THR	570	90. 153 46. 862 66. 232 1. 00 21. 45 89. 512 48. 191 65. 797 1. 00 19. 91	В	C
ATOM	10379	0G1		570	90. 349 49. 285 66. 188 1. 00 21. 12	В	C
ATOM	10380		THR	570	88. 143 48. 351 66. 430 1. 00 17. 96	В	0
ATOM	10381	C	THR	570	89. 132 45. 751 65. 974 1. 00 24. 43	B B	C C
ATOM	10382	ŏ	THR	570	88. 453 45. 301 66. 894 1. 00 27. 79	В	0
ATOM	10383	Ň	GLU	571	89.001 45.317 64.727 1.00 23.34	В	N N
ATOM	10384	ĊA	GLU	571	88. 030 44. 280 64. 415 1. 00 21. 95	В	C
ATOM	10385	CB	GLU	571	87. 499 44. 481 62. 998 1. 00 22. 83	В	č
ATOM	10386	CG	GLU	571	87. 004 45. 888 62. 709 1. 00 24. 63	В	č
ATOM	10387	CD	GLU	571	85. 957 46. 357 63. 696 1. 00 25. 17	B	Č
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					FIC	G. 4-	213			(Continued)
ATOM	10388		GLU	571	85. 236	45. 509	64. 258	1.00 28.12	В	0
ATOM	10389		GLU	571	85.834	47. 580	63. 897	1.00 26.28	B B	0 C
ATOM	10390	C	GLU GLU	571 571	88. 606 87. 903	42. 874 41. 887	64. 554 64. 362	1.00 21.35 1.00 19.91	В	0
ATOM ATOM	10391 10392	O N	ASN	572	89. 887	42. 784	64. 894	1.00 13.31	В	N
ATOM	10392	CA	ASN	572	90. 539	41. 491	65.043	1.00 21.58	В	Č
ATOM	10333	CB	ASN	572	89. 998	40. 744	66. 255	1.00 23.76	В	č
ATOM	10395	CG	ASN	572	90. 523	41. 303	67. 552	1.00 27.80	В	č
ATOM	10396		ASN	572	90.053	42. 335	68. 035	1.00 30.34	B	Ö
ATOM	10397		ASN	572	91.522	40. 634	68. 121	1.00 30.31	B	N
ATOM	10398	C	ASN	572	90.347	40.639	63.806	1.00 21.12	В	C
ATOM	10399	0	ASN	572	90.112	39.436	63.903	1.00 20.16	В	0
ATOM	10400	N	ILE	573	90.445	41.280	62.645	1.00 19.59	В	N
ATOM	10401	CA	ILE	573	90.311	40.604	61.365	1.00 18.06	В	C
ATOM	10402	CB	ILE	573	89. 509	41.456	60.382	1.00 18.14	В	С
ATOM	10403		ILE	573	89. 371	40. 735	59.057	1.00 18.53	В	C
ATOM	10404		ILE	573	88. 143	41.778	60.970	1.00 19.49	В	C
ATOM	10405		ILE	573	87. 336	42. 735	60. 131	1.00 20.04	В	Č
ATOM	10406	C	ILE	573	91.706	40. 425	60. 777	1.00 18.47	В	C
ATOM	10407	0	ILE	573	92.480	41.376	60. 739	1.00 19.08	В	0
ATOM	10408	N	ILE	574	92.038	39. 216	60. 337	1.00 17.57	В	N
ATOM	10409	CA	ILE	574	93. 340	38. 978	59. 724	1.00 18.02	В	C
ATOM	10410	CB	ILE	574	93. 724	37. 494	59.740	1.00 19.09	В	C
ATOM ATOM	10411 10412		ILE ILE	574	94. 950	37. 280	58. 870	1.00 20.13	В	C
ATOM	10412		ILE	574 574	94. 004 94. 330	37. 031 35. 553	61. 172 61. 282	1.00 21.02 1.00 20.47	В	C
ATOM	10413	CD1	ILE	574	93. 298	39. 423	58. 265	1.00 20.47	B B	C C
ATOM	10414	ŏ	ILE	574	92. 444	38. 981	57. 500 ·		В	0
ATOM	10416	N	VAL	575	94. 217	40. 296	57. 876	1.00 13.43	В	N N
ATOM	10417	CA	VAL	575	94. 254	40.777	56.498	1.00 16.42	В	Ċ
ATOM	10418	CB	VAL	575	94. 354	42. 308	56. 430	1.00 16.55	B	č
ATOM	10419	CG1		575	94. 271	42. 753	54. 985	1.00 16.06	B	č
	10420			575		42.948			B	č
ATOM	10421	С	VAL	575	95.452	40.187	55.786	1.00 16.02	В	Č
ATOM	10422	0	VAL	575	96.592	40.488	56.124	1.00 16.68	В	0
ATOM	10423	N	ALA	576	95. 186	39. 344	54.797	1.00 16.21	В	N
ATOM	10424	CA	ALA	576	96.246	38.683	54.056	1.00 15.22	В	С
ATOM	10425	CB	ALA	576	96.062	37. 176	54. 127	1.00 12.38	В	C
ATOM	10426	C	ALA	576	96. 330	39. 117	52.601	1.00 15.92	В	С
ATOM	10427	0	ALA	576	95. 397	39. 710	52.046	1.00 16.20	В	0
ATOM	10428	N	SER	577	97. 470	38. 811	51.996	1.00 14.35	В	N
ATOM	10429	CA	SER	577	97. 722	39. 123	50.606	1.00 13.57	В	C
ATOM	10430	CB	SER	577	98. 368	40. 495	50. 474	1.00 13.58	В	C
ATOM	10431	OG	SER	577	97. 456	41.504	50.866	1.00 16.22	В	0
ATOM	10432	C	SER	577 577	98. 642	38. 045	50.069	1.00 13.24	В	C
ATOM	10433	0 N	SER	577 578	99. 497	37. 522	50. 788	1.00 13.05	В	0 N
ATOM ATOM	10434 10435	N CA	PHE PHE	578 578	98. 462 99. 262	37. 712 36. 676	48. 800 48. 183	1.00 11.98 1.00 11.24	B B	N C
ATOM	10436	CB	PHE	578	99. 202 98. 418	35. 407	48. 079	1.00 11.24	В	C C

					E 1 (	<b>.</b> 4	911			(Continued)
					r I (	J. 4 -	214			
ATOM	10437	CG	PHE	578	99. 136	34. 232		1.00 10.60	В	Č
ATOM	10438		PHE	578	100.196	33. 628		1.00 10.29	В	C
ATOM	10439		PHE	578 578	98. 697	33. 679	46. 280	1.00 10.36	В	C
ATOM ATOM	10440 10441		PHE PHE	578 578	100. 805 99. 297	32. 483	47. 640 45. 762	1.00 11.15	В	C
ATOM	10441	CZ	PHE	578	100. 354	32. 537 31. 936	46. 446	1.00 11.72 1.00 10.87	B B	C C
ATOM	10443	C	PHE	578	99. 746	37. 096	46. 805	1.00 10.56	В	C
ATOM	10444	ŏ	PHE	578	99. 002	37. 704	46. 039	1.00 10.30	В	Ö
ATOM	10445	Ň	ASP	579	101.005	36. 780	46. 516	1.00 11.14	В	Ň
ATOM	10446	CA	ASP	579	101.617	37.069	45. 227	1.00 9.94	B	Ċ
ATOM	10447	CB	ASP	579	103.008	37.682	45.401	1.00 9.15	B	Č
ATOM	10448	CG	ASP	579	102.957	39.090	45. 954	1.00 13.00	В	С
ATOM	10449		ASP	579	102.053	39.842	45. 532	1.00 14.87	В	0
ATOM	10450		ASP	579	103.816	39. 451	46. 796	1.00 11.19	В	0
ATOM	10451	C	ASP	579	101.734	35. 741	44. 488	1.00 11.60	В	C
ATOM	10452	0 N	ASP	579	102.633	34. 927	44. 753	1.00 12.07	В	0
ATOM ATOM	10453 10454	N CA	GLY GLY	580 580	100. 809 100. 838	35. 510 34. 274	43.570	1.00 10.77	В	N
ATOM	10455	C	GLY	580	101.458		42. 815 41. 450	1.00 11.96 1.00 13.34	B B	C C
ATOM	10456	ŏ	GLY	580	102. 269	35. 376	41. 227	1.00 13.34	В	0
ATOM	10457	Ň	ARG	581	101.080	33.611	40. 521	1.00 12.30	В	N N
ATOM	10458	CA	ARG	581	101.615	33. 714	39. 187	1.00 15.34	В	Č
ATOM	10459	CB	ARG	581	101.085	32.570	38. 338	1.00 13.67	B	č
ATOM	10460	CG	ARG	581	101.809	31.283	38.666	1.00 15.30	$\tilde{\mathtt{B}}$	č
ATOM	10461	CD	ARG	581	101.172	30.076	38.023	1.00 14.62	В	Č
	10462	NE	ARG	581	99. 980	29.652	38. 740	1.00 13.01	В	N
ATOM	10463	CZ	ARG	581	99. 186	28.672	38. 330	1.00 13.69	В	C
ATOM	10464		ARG	581	99. 467	28. 024	37. 207	1.00 13.99	В	N
ATOM	10465		ARG	581	98.112	28. 348	39. 036	1.00 12.41	В	N
ATOM ATOM	10466 10467	C 0	ARG ARG	581 581	101.237	35.069	38. 624	1.00 17.21	В	C
ATOM	10468	N	GLY	582	100. 175 102. 128	35. 615 35. 628	38. 934 37. 817	1.00 17.96 1.00 18.14	В	0
ATOM	10469	CA	GLY	582	101.868			1.00 18.14	В	N C
ATOM		C	GLY	582		37. 998	38. 159	1.00 16.81	B B	C C
ATOM	10471	Ö	GLY	582	102.557		37. 754	1.00 18.98	В	Ö
ATOM	10472	N	SER	583	102.835		39. 378	1.00 15.90	B	Ň
ATOM	10473	CA	SER	583	103.423		40.309	1.00 16.60	B	Ĉ
ATOM	10474	CB	SER	583	103. 437	38.024	41.730	1.00 17.47	В	C
ATOM	10475	OG	SER	583	104. 229			1.00 21.54	В	0
ATOM	10476	C	SER	583	104.841			1.00 15.56	В	C
ATOM	10477	0	SER	583	105.389			1.00 17.79	В	0
ATOM ATOM	10478 10479		GLY GLY	584 504	105.441		40. 359	1.00 14.64	В	N
ATOM	10479	C	GLY	584 584	106. 776 107. 969		39. 908	1.00 13.05	В	C
ATOM	10481		GLY	584	107. 851		40. 831 41. 949	1.00 12.28 1.00 11.78	B B	C 0
ATOM	10482	N	TYR	585	109.129		40. 325	1.00 11.78	В	N N
ATOM			TYR	585			41.034	1.00 12.04	В	C
ATOM	10484		TYR		110. 335		_	1.00 11.93	B	č
ATOM	10485	CG	TYR	585		42.719		1.00 12.41	B	Č
					SUBSTITUTE	SHEET	(RULE 26	5)		

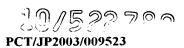
						(Continued)
					FIG. 4-215	(Continueu)
ATOM	10400	CD1	TVD	EOE	110 270 42 604 41 207 1 00 12 20 B	C
ATOM ATOM	10486 10487		TYR TYR	585 585	110. 370 43. 694 41. 297 1. 00 12. 30 B 109. 756 44. 891 40. 979 1. 00 12. 43 B	C C
ATOM	10488		TYR	585	108. 408 42. 983 42. 478 1. 00 10. 95 B	Ċ
ATOM	10489		TYR	585	107. 783 44. 179 42. 167 1. 00 12. 28 B	č
ATOM	10489	CZ	TYR	585	108. 459 45. 126 41. 418 1. 00 13. 31 B	č
ATOM	10430	OH	TYR	585	107. 831 46. 306 41. 109 1. 00 14. 33 B	ŏ
ATOM	10492	C	TYR	585	110. 883 39. 141 41. 394 1. 00 12. 01 B	č
ATOM	10493	ŏ	TYR	585	111. 673 38. 979 42. 319 1. 00 13. 01 B	ŏ
ATOM	10494	Ň	GLN	586	110. 413 38. 144 40. 655 1. 00 11. 45 B	N
ATOM	10495	CA	GLN	586	110.787 36.763 40.906 1.00 11.62 B	Ĉ
ATOM	10496	CB	GLN	586	109. 639 36. 071 41. 641 1. 00 10. 30 B	Ċ
ATOM	10497	CG	GLN	586	109.178 36.854 42.867 1.00 14.38 B	C
ATOM	10498	CD	GLN	586	107. 749 36. 533 43. 295 1. 00 15. 38 B	C
ATOM	10499	0E1	GLN	586	107. 468 35. 452 43. 816 1. 00 12. 14 B	0
ATOM	10500	NE2	GLN	586	106. 835 37. 478 43. 060 1. 00 15. 36 B	N
ATOM	10501	C	GLN	586	111.118 36.023 39.602 1.00 12.85 B	С
ATOM	10502	0	GLN	586	111.173 34.786 39.574 1.00 13.97 B	0
ATOM	10503	N	GLY	587	111. 336 36. 778 38. 525 1. 00 11. 70 B	N
ATOM	10504	CA	GLY	587	111. 641 36. 168 37. 242 1. 00 11. 61 B	C
ATOM	10505	C	GLY	587	110. 405 35. 960 36. 373 1. 00 14. 10 B	C
ATOM	10506	0	GLY	587	109. 302 35. 786 36. 884 1. 00 13. 91 B	0
ATOM	10507	N	ASP	588	110. 595 35. 949 35. 054 1. 00 16. 19 B	N
ATOM	10508	CA	ASP	588	109. 500 35. 776 34. 105 1. 00 17. 70 B	C
ATOM	10509	CB	ASP	588	110.002 35.993 32.680 1.00 18.98 B	C
ATOM	10510	CG	ASP	588 500	110.708 37.312 32.505 1.00 20.57 B	C
ATOM ATOM	10511 10512	OD1 OD2		588 588	110. 236 38. 335 33. 040 1. 00 23. 28 B 111. 738 37. 327 31. 809 1. 00 23. 25 B	0
ATOM	10512	C C	ASP	588	111. 738 37. 327 31. 809 1. 00 23. 25 B 108. 723 34. 454 34. 139 1. 00 17. 46 B	0
ATOM	10513	Ö	ASP	588	107. 608 34. 389 33. 635 1. 00 16. 74 B	O C
ATOM	10515	N	LYS	589	109. 294 33. 397 34. 697 1. 00 18. 02 B	N N
ATOM	10516	CA	LYS	589	108. 559 32. 143 34. 734 1. 00 20. 00 B	C
ATOM	10517	CB	LYS	589	109. 383 31. 030 35. 372 1. 00 22. 21 B	Č
ATOM	10518	CG	LYS	589	108. 633 29. 710 35. 443 1. 00 27. 16 B	Č
ATOM	10519	CD	LYS	589	109. 526 28. 579 35. 940 1. 00 32. 47 B	č
ATOM	10520	CE	LYS	589	108. 753 27. 273 36. 111 1. 00 33. 79 B	č
ATOM	10521	NZ	LYS	589	109. 605 26. 232 36. 771 1. 00 35. 98 B	Ň
ATOM	10522	C	LYS	589	107. 290 32. 362 35. 536 1. 00 20. 94 B	Č
ATOM	10523	0	LYS	589	106. 244 31. 781 35. 242 1. 00 23. 79 B	. 0
ATOM	10524	N	ILE	590	107. 384 33. 212 36. 552 1. 00 18. 06 B	N
ATOM	10525	CA	ILE	590	106. 237 33. 523 37. 379 1. 00 14. 07 B	С
ATOM	10526	CB	ILE	590	106.681 33.901 38.814 1.00 11.33 B	С
ATOM	10527		ILE	590	105.585 34.654 39.538 1.00 9.61 B	С
ATOM	10528	CG1		590	107.057 32.635 39.585 1.00 10.89 B	С
ATOM	10529	CD1		590	107. 750 32. 888 40. 897 1. 00 7. 05 B	C
ATOM	10530	C	ILE	590	105. 461 34. 682 36. 753 1. 00 15. 70 B	C
ATOM	10531	0	ILE	590	104. 254 34. 583 36. 511 1. 00 16. 31 B	0
ATOM	10532	N CA	MET	591	106.159 35.774 36.465 1.00 15.00 B	N
ATOM	10533	CA	MET	591	105.506 36.948 35.907 1.00 14.79 B	C
ATOM	10534	CB	MET	591	106. 512 38. 088 35. 759 1. 00 14. 22 B	С

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					rıv	J. 4	210	,		
ATOM	10535				105. 854	39. 452			В	C
ATOM	10536		MET		107. 027	40. 830			В	S
ATOM	10537	CE	MET		107. 813	40. 502			В	C
ATOM	10538		MET	591	104. 788	36. 699			В	C
ATOM	10539		MET	591	103. 643	37. 113			В	0
ATOM	10540	N	HIS	592	105. 451	36. 022			В	N
ATOM ATOM	10541 10542	CA CB	HIS	592	104. 863	35. 725	32. 343		В	C
ATOM	10542	CG	HIS HIS	592 592	105. 962	35. 424	31. 332		В	C
ATOM	10543		HIS	592 592	106. 753 106. 626	36. 626 37. 933	30. 922		В	C
ATOM	10545		HIS	592	100. 020	36. 555	31. 252 30. 041	1.00 17.20	В	C
ATOM	10546		HIS	592	108.300	37. 765	29. 845	1.00 17.84 1.00 16.59	В	N
ATOM	10547		HIS	592	107. 598	38. 620	30. 567	1.00 16.39	B B	C N
ATOM	10548	C	HIS	592	103. 859	34. 569	32. 355	1.00 10.88	В	C
ATOM	10549	Ŏ	HIS	592	103. 224	34. 274	31.344	1.00 15.17	В	0
ATOM	10550	N	ALA	593	103. 708	33. 917	33. 500	1.00 15.86	В	N N
ATOM	10551	CA	ALA	593	102. 775	32. 810	33.615	1.00 14.02	В	C
ATOM	10552	CB	ALA	593	102.690	32. 353	35.060	1.00 13.60	В	Č
ATOM	10553	C	ALA	593	101.393	33. 195	33. 106	1.00 15.66	В	č
ATOM	10554	0	ALA	593	100.647	32. 335	32.631	1.00 17.83	B	ŏ
ATOM	10555	N	ILE	594	101.043	34.478	33.207	1.00 16.63	B	Ň
ATOM	10556	CA	ILE	594	99. 731	34.945	32.745	1.00 16.87	B	Č
ATOM	10557	CB	ILE	594	99. 035	35.857	33. 791	1.00 15.87	В	Č
ATOM	10558	CG2		594	98. 506	35.017	34.932	1.00 16.36	В	Č
ATOM	10559		ILE	594	100.006	36. 915	34. 321	1.00 16.86	В	C
ATOM	10560	CD1		594	100. 533	37.882	33.274	1.00 16.67	В	C
ATOM	10561	C	ILE	594	99. 748	35. 689	31.413	1.00 17.96	В	C
ATOM ATOM	10562	0 N	ILE	594 505	98. 884	36. 525	31.160	1.00 19.03	В	0
ATOM	10563 10564	N	ASN	595 505	100.718	35. 385	30. 558	1.00 17.93	В	N
ATOM	10565	CA CB	ASN ASN	595 505	100.802	36.050	29. 263	1.00 19.09	В	C
ATOM	10566	CG	ASN	595 595	102.140	35. 737	28. 592	1.00 19.22	В	C
ATOM	10567		ASN	595	102. 291 102. 320	36. 441 37. 668	27. 260	1.00 19.91	В	C
ATOM	10568		ASN	595	102. 320	35. 667	27. 198	1.00 19.01	В	0
ATOM	10569	C	ASN	595	99. 659	35. 641	26. 184 28. 330	1.00 19.95 1.00 19.09	В	N
ATOM	10570	ŏ	ASN	595	99. 456	34. 460	28.076	1.00 19.09	В	C
ATOM	10571	Ň	ARG	596	98. 933	36. 630	27.814	1.00 19.51	B B	0 N
ATOM	10572	CA	ARG	596	97. 799	36. 406	26.911	1.00 19.00	В	N C
ATOM	10573	CB	ARG	596	98. 212	35. 588	25. 677	1.00 20.01	В	C
ATOM	10574	CG	ARG	596	99. 233	36. 247	24. 756	1.00 17.26	В	Č
ATOM	10575	CD	ARG	596	99.655	35. 296	23.636	1.00 17.14	В	Č
ATOM	10576	NE	ARG	596	98. 553	34. 982	22. 728	1.00 17.97	В	N .
ATOM	10577	CZ	ARG	596	98. 102	35. 816	21. 795	1.00 19.85	В	Č
ATOM	10578	NH1	ARG	596	98.671	37.005	21.640	1.00 21.47	B	N
ATOM	10579	NH2		596	97.060	35.486	21.045	1.00 18.12	B	N
ATOM	10580	C	ARG	596	96. 692	35. 655	27. 632	1.00 21.03	В	C
ATOM	10581	0	ARG	596	95. 731	35. 213	27.005	1.00 22.67	В	0
ATOM	10582	N	ARG	597		35. 529	28. 948	1.00 20.90	В	N
ATOM	10583	CA	ARG	597	95. 831	34.770	29. 714	1.00 20.85	В	C

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ATOM	10584	СВ	ARG	597	96. 437	33. 414	30.078	1.00 23.88	В	С
ATOM	10585	CG	ARG	597	95.850	32. 257	29.300	1.00 31.40	В	Č
ATOM	10586	CD	ARG	597	95.913	32.520	27.810	1.00 34.67	B	Č
ATOM	10587	NE	ARG	597	95.006	31.660	27.059	1.00 35.49	B	Ň
ATOM	10588	CZ	ARG	597	94. 776	31.792	25.759	1.00 35.98	В	С
ATOM	10589	NH1	ARG	597	95. 386	32.748	25.075	1.00 35.20	В	N
ATOM	10590	NH2	ARG	597	93.933	30.974	25.145	1.00 39.12	В	N
ATOM	10591	C	ARG	597	95. 292	35.429	30.976	1.00 18.83	В	C
ATOM	10592	0	ARG	597	94. 981	34.739	31.945	1.00 17.54	В	0
ATOM	10593	N	LEU	598	95. 175	36.751	30.964	1.00 16.66	В	N
ATOM	10594	CA	LEU	598	94.678	37.477	32.125	1.00 15.71	В	С
ATOM	10595	CB	LEU	598	94.482	38.959	31.769	1.00 12.95	В	С
ATOM	10596	CG	LEU	598	95.523	39.990	32.248	1.00 12.69	В	С
ATOM	10597	CD1	LEU	598	96.939	39.473	32.106	1.00 11.40	В	C ·
ATOM	10598	CD2	LEU	598	95.361	41.267	31.466	1.00 9.68	В	C
ATOM	10599	C	LEU	598	93.369	36.870	32.642	1.00 17.19	В	C
ATOM	10600	0	LEU	598	92.533	36.398	31.863	1.00 17.25	В	0
ATOM	10601	N	GLY	599	93.207	36.864	33.961	1.00 16.06	В	N
ATOM	10602	CA	GLY	599	91.997	36. 328	34. 547	1.00 16.44	В	C
ATOM	10603	С	GLY	599	91.987	34.824	34. 735	1.00 17.37	В	C
ATOM	10604	0	GLY	599	90. 921	34. 221	34.843	1.00 17.28	В	0
ATOM	10605	N	THR	600	93. 164	34. 213	34.786	1.00 17.73	В	N
ATOM	10606	CA	THR	600	93.247	32.775	34.972	1.00 17.95	В	C
ATOM	10607	CB	THR	600	93. 823	32.091	33.722	1.00 18.93	В	C
ATOM	10608	0G1		600	95.185	32.495	33. 530	1.00 17.74	В	0
ATOM	10609	CG2		600	93.000	32.463	32. 491	1.00 17.48	В	C
ATOM	10610	C	THR	600	94.087	32. 384	36. 183	1.00 19.93	В	C
ATOM	10611	0	THR	600	93.574	32. 285	37. 295	1.00 21.69	В	0
ATOM	10612	N	PHE	601	95.382	32. 177	35. 971	1.00 21.11	В	N
ATOM	10613	CA	PHE	601	96.279	31.768	37.048	1.00 21.56	В	C
ATOM	10614	CB	PHE	601	97.686	31.542	36. 494	1.00 20.77	В	C
ATOM	10615	CG	PHE	601	97. 757	30. 452	35. 475	1.00 21.75	В	C
ATOM	10616		PHE	601	98.676	30. 513	34. 439	1.00 23.50	В	C
ATOM	10617		PHE	601	96. 896	29. 366	35. 539	1.00 21.83	В	C
ATOM	10618		PHE	601	98. 731	29. 502	33. 474	1.00 24.75	В	C
ATOM	10619		PHE	601	96. 949	28. 356	34. 581	1.00 22.61	В	C
ATOM	10620	CZ	PHE	601	97. 868	28. 427	33. 547	1.00 20.03	В	С
ATOM	10621	C	PHE	601	96. 346	32. 710	38. 244	1.00 21.61	В	C
ATOM	10622	0	PHE	601	96. 437	32. 247	39. 386	1.00 23.03	В	0
ATOM	10623	N	GLU	602	96. 312	34. 018	37. 997	1.00 20.14	В	N
ATOM	10624	CA	GLU	602	96. 374	34. 976	39. 097	1.00 19.30	В	С
ATOM	10625	CB	GLU	602	96. 505	36. 422	38. 581	1.00 16.90	В	C
ATOM	10626	CG	GLU	602	95. 193	37. 072	38. 135	1.00 17.16	В	C
ATOM	10627	CD	GLU	602	94. 857	36. 847	36. 661	1.00 17.31	В	C
ATOM	10628	OE1		602	94. 930	35. 696	36. 184	1.00 18.92	В	0
ATOM	10629	OE2		602	94. 505	37. 830	35. 981	1.00 16.38	В	0
ATOM	10630	C	GLU	602	95. 111	34. 838	39. 952	1.00 18.97	В	C
ATOM	10631	0 N	GLU	602	95. 170	34. 953	41.179	1.00 18.54	В	0
ATOM	10632	N	VAL	603	93.979	34. 584	39. 296	1.00 19.02	В	N



					(Continued)
				FIG. 4-218	
ATOM	10633	CA VAL	603	92. 696 34. 413 39. 984 1. 00 21. 62 B	С
ATOM	10634	CB VAL	603	91. 513 34. 471 38. 999 1. 00 21. 51 B	Č
ATOM	10635	CG1 VAL	603	90. 233 34. 055 39. 701 1. 00 19. 24 B	Č
ATOM	10636	CG2 VAL	603	91. 380 35. 876 38. 442 1. 00 21. 00 B	Č
ATOM	10637	C VAL	603	92.643 33.073 40.716 1.00 22.35 B	C
ATOM	10638	0 VAL	603	92.160 32.989 41.848 1.00 21.06 B	0
ATOM	10639	N GLU	604	93. 141 32. 031 40. 059 1. 00 22. 98 B	Ň
ATOM	10640	CA GLU	604	93. 182 30. 702 40. 656 1. 00 26. 04 B	Ċ
ATOM	10641	CB GLU	604	93. 721 29. 681 39. 645 1. 00 28. 46 B	Č
ATOM	10642	CG GLU	604	92. 956 29. 671 38. 326 1. 00 35. 94 B	Č
ATOM	10643	CD GLU	604	93. 559 28. 742 37. 273 1. 00 40. 17 B	Č
ATOM	10644	OE1 GLU	604	93. 215 28. 911 36. 076 1. 00 40. 47 B	Ö
ATOM	10645	OE2 GLU	604	94. 360 27. 844 37. 637 1. 00 41. 61 B	Ö
ATOM	10646	C GLU	604	94. 072 30. 705 41. 905 1. 00 24. 63 B	Č
ATOM	10647	0 GLU	604	93. 657 30. 255 42. 976 1. 00 25. 47 B	0
ATOM	10648	N ASP	605	95. 286 31. 234 41. 775 1. 00 22. 17 B	Ň
ATOM	10649	CA ASP	605	96. 213 31. 255 42. 900 1. 00 21. 12 B	Ċ
ATOM	10650	CB ASP	605	97. 568 31. 827 42. 463 1. 00 23. 09 B	Č
ATOM	10651	CG ASP	605	98. 263 30. 958 41. 414 1. 00 24. 43 B	C C C
ATOM	10652	OD1 ASP	605	97. 894 29. 774 41. 266 1. 00 26. 59 B	0
ATOM	10653	OD2 ASP	605	99. 188 31. 453 40. 742 1. 00 25. 60 B	0
ATOM	10654	C ASP	605	95. 712 31. 967 44. 159 1. 00 19. 42 B	C
ATOM	10655	0 ASP	605	96. 099 31. 598 45. 260 1. 00 19. 67 B	0
ATOM	10656	N GLN	606	94. 868 32. 983 44. 014 1. 00 17. 23 B	N
ATOM	10657	CA GLN	606	94. 337 33. 673 45. 192 1. 00 16. 41 B	C
ATOM	10658	CB GLN	606	93. 576 34. 951 44. 795 1. 00 17. 09 B	Ċ
ATOM	10659	CG GLN	606	94. 407 36. 070 44. 165 1. 00 15. 81 B	Ċ
ATOM	10660	CD GLN	606	95. 332 36. 748 45. 162 1. 00 15. 36 B	С
ATOM	10661	OE1 GLN	606	94. 879 37. 283 46. 173 1. 00 13. 19 B	0
ATOM	10662	NE2 GLN	606	96. 637 36. 730 44. 878 1. 00 14. 39 B	N
ATOM	10663	C GLN	606	93. 360 32. 706 45. 878 1. 00 15. 71 B	С
ATOM	10664	0 GLN	606	93. 337 32. 583 47. 102 1. 00 14. 30 B	0
ATOM	10665	N ILE	607	92. 549 32. 030 45. 070 1. 00 13. 95 B	N
ATOM	10666	CA ILE	607	91.584 31.076 45.583 1.00 13.95 B	C
ATOM	10667	CB ILE	607	90. 772 30. 437 44. 448 1. 00 12. 90 B	C
ATOM	10668	CG2 ILE	607	89. 925 29. 294 44. 996 1. 00 11. 78 B	C C C C
ATOM	10669	CG1 ILE	607	89. 909 31. 504 43. 773 1. 00 12. 90 B	C
ATOM	10670	CD1 ILE	607	89. 162 31. 016 42. 560 1. 00 11. 00 B	C
ATOM	10671	C ILE	607	92. 330 29. 985 46. 318 1. 00 15. 04 B	C
ATOM	10672	0 ILE	607	92. 008 29. 670 47. 462 1. 00 15. 40 B	0
ATOM	10673	n glu	608	93. 331 29. 413 45. 652 1. 00 16. 29 B	N
ATOM	10674	CA GLU	608	94. 144 28. 359 46. 246 1. 00 18. 48 B	C
ATOM	10675	CB GLU	608	95. 180 27. 864 45. 235 1. 00 18. 74 B	С
ATOM	10676	CG GLU	608	96. 164 26. 851 45. 792 1. 00 22. 43 B	C
ATOM	10677	CD GLU	608	95. 498 25. 557 46. 213 1. 00 29. 00 B	С
ATOM	10678	OE1 GLU	608	96. 096 24. 817 47. 032 1. 00 32. 52 B	0
ATOM	10679	OE2 GLU	608	94. 382 25. 274 45. 721 1. 00 31. 62 B	0
ATOM	10680	C GLU	608	94. 848 28. 889 47. 501 1. 00 20. 58 B	C
ATOM	10681	0 GLU	608	95.114 28.138 48.446 1.00 23.01 B	0

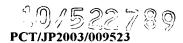
					FIC	3. <b>4</b> -	219			(Continued)
ATOM	10682	N	ALA	609	95. 150	30. 183	47. 506	1.00 19.99	В	N
ATOM	10683	CA	ALA	609	95.811	30.789	48.646	1.00 21.28	В	C
ATOM	10684	CB	ALA	609	96.269	32.196	48.310	1.00 19.81	В	С
ATOM	10685	C	ALA	609	94.826	30.819	49. 797	1.00 21.63	В	C
ATOM	10686	0	ALA	609	95. 152	30.426	50.915	1.00 21.88	В	0
ATOM	10687	N	ALA	610	93.618	31.286	49. 516	1.00 23.07	В	N
ATOM	10688	CA	ALA	610	92.580	31.358	50. 535	1.00 25.56	В	С
ATOM	10689	CB	ALA	610	91.317	31.963	49. 957	1.00 25.38	В	С
ATOM	10690	C	ALA	610	92. 300	29. 952	51.024	1.00 26.13	В	C
ATOM	10691	0	ALA	610	92. 256	29. 694	52. 223	1.00 25.97	В	0
ATOM	10692	N	ARG	611	92. 119	29. 044	50.073	1.00 28.12	В	N
ATOM	10693	CA	ARG	611	91.838	27.647	50. 374	1.00 28.88	В	C
ATOM	10694	CB	ARG	611	91.886	26.826	49.087	1.00 27.27	В	С
ATOM	10695	CG	ARG	611	91.518	25. 372	49. 260	1.00 28.40	В	C
ATOM	10696	CD	ARG	611	91. 547	24.668	47. 925	1.00 30.54	В	C
ATOM	10697	NE OZ	ARG	611	90. 501	25. 152	47. 028	1.00 33.73	В	N
ATOM	10698	CZ	ARG	611	90. 628	25. 223	45. 706	1.00 36.39	В	C
ATOM	10699		ARG	611	91.764	24. 848	45. 129	1.00 38.00	В	N
ATOM	10700		ARG	611	89. 615	25. 645	44. 956	1.00 37.15	В	N
ATOM	10701	C	ARG	611	92.826	27. 082	51.391	1.00 29.24	В	C
ATOM ATOM	10702	0 N	ARG	611	92. 446	26. 330	52. 287	1.00 30.51	В	0
ATOM	10703 10704	N CA	GLN	612	94. 092	27. 452	51.260	1.00 30.24	В	N
ATOM	10704	CB	GLN GLN	612 612	95. 105 96. 491	26. 965	52. 182	1.00 30.75	В	C
ATOM	10705	CG	GLN	612	96. 738	27. 029 25. 866	51.532	1.00 29.62	В	C
ATOM	10707	CD	GLN	612	98. 183	25. 741	50. 581 50. 150	1.00 31.27 1.00 32.19	В	C
ATOM	10708		GLN	612	99. 097	25. 778	50. 150	1.00 32.19	B B	C
ATOM	10709		GLN	612	98. 400	25. 578	48. 848	1.00 32.20	B B	O N
ATOM	10710	C	GLN	612	95. 109	27. 691	53. 524	1.00 31.36	В	C
ATOM	10711	ŏ	GLN	612	95. 441	27. 095	54. 545	1.00 31.30	В	0
ATOM	10712	Ň	PHE	613	94. 740	28. 969	53. 533	1.00 31.39	В	N N
ATOM	10713		PHE	613	94. 705	29. 717	54. 784	1.00 30.50	В	Č
	10714		PHE	613	94. 527			1.00 30.43	В	Č
ATOM	10715		PHE	613	95.651	31.853	53. 775	1.00 31.06	B	č
ATOM	10716		PHE	613	96.974	31.532	54.058	1.00 32.48	B	č
ATOM	10717	CD2	PHE	613	95. 385	32.805	52.796	1.00 30.25	B	č
ATOM	10718	CE1	PHE	613	98.024	32.156	53.371	1.00 32.97	B	Č
ATOM	10719	CE2	PHE	613	96.419	33. 432	52.109	1.00 31.17	B	Č
ATOM	10720	CZ	PHE	613	97. 742	33. 109	52.394	1.00 32.13	В	Č
ATOM	10721	C	PHE	613	93. 531	29. 214	55.607	1.00 30.36	В	С
ATOM	10722	0	PHE	613	93. 572	29.216	56.830	1.00 28.96	В	0
ATOM	10723	N	SER	614	92. 478	28. 786	54. 923	1.00 31.88	В	N
ATOM	10724	CA	SER	614	91. 292	28. 286	55.600	1.00 34.43	В	С
ATOM	10725	CB	SER	614	90. 141	28. 104	54.607	1.00 34.30	В	С
ATOM	10726	OG	SER	614	90. 419	27. 055	53. 697	1.00 34.39	В	0
ATOM	10727	C	SER	614	91.609	26. 953	56. 264	1.00 35.74	В	C
ATOM	10728	0	SER	614	90. 908	26. 519	57. 178	1.00 37.21	В	0
ATOM	10729		LYS	615	92.670	26. 307	55. 797	1.00 36.52	В	N
ATOM	10730	CA	LYS	615	93. 079	25. 030	56. 350	1.00 37.25	В	С

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					FIG.	4 - 220	)		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10731 10732 10733 10734 10735 10736 10737 10738 10739	CB CCD CE NZ C O N CA CB	LYS LYS LYS LYS LYS LYS MET MET MET	615 615 615 615 615 615 616 616	93. 781 24 92. 839 23 93. 595 23 94. 883 22 95. 776 22 94. 001 25 94. 379 24 94. 373 26 95. 240 26 96. 021 28	4 - 2 2 0  4. 196	3 1.00 37.94 3 1.00 40.25 3 1.00 42.18 1.00 42.76 1.00 43.07 1.00 37.98 1.00 40.67 1.00 37.04 1.00 36.91 1.00 36.80	B B B B B B B	C C C N C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10741 10742 10743 10744 10745 10746 10747 10748 10749 10750	CG SD CE C O N CA C O N CA	MET MET MET MET GLY GLY GLY PHE PHE	616 616 616 616 617 617 617 617 618 618	97. 847 29 99. 135 29 94. 370 26 93. 181 27 94. 973 26 94. 233 26 93. 584 27 92. 516 27 94. 202 28	7. 961 57. 613 9. 532 57. 282 9. 023 56. 125 9. 817 60. 200 9. 143 60. 130 9. 514 61. 343 9. 505 62. 587 9. 783 63. 072 9. 729 63. 689 9. 926 62. 797 9. 204 63. 271	1.00 40.04 1.00 35.34 1.00 35.92 1.00 35.52 1.00 33.40 1.00 31.05	B B B B B B B	C S C C O N C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10752 10753 10754 10755 10756 10757 10758 10759	CB CCD1 CD2 CE1 CE2 CZ C	PHE PHE PHE PHE PHE PHE PHE PHE	618 618 618 618 618 618 618	94. 852 31 95. 898 31 95. 763 32 97. 012 30 96. 726 32 97. 981 30 97. 836 31. 92. 706 30 92. 319 32	. 118 63. 636 . 216 62. 563 . 127 61. 523 . 385 62. 588 . 214 60. 518 . 459 61. 590 . 380 60. 549 . 948 62. 353 . 079 62. 644	1.00 26.06 1.00 25.52 1.00 25.78 1.00 25.30 1.00 26.10 1.00 26.94 1.00 27.08 1.00 24.88 1.00 24.17	B B B B B B	C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10761 10762 10763 10764 10765 10766 10767 10768 10769 10770		VAL VAL VAL VAL VAL VAL ASP ASP	619 619 619 619 619 619 620 620 620	91. 381 30. 91. 913 30. 91. 007 31. 93. 326 31. 90. 004 30. 89. 873 29. 88. 981 31. 87. 601 30.	. 313 61. 259 . 947 60. 324 . 876 58. 875 . 665 57. 945 . 415 58. 817 . 303 60. 371 . 083 60. 378 . 146 60. 405 . 701 60. 449 . 717 61. 238	1. 00 24. 78 1. 00 25. 04 1. 00 25. 17 1. 00 23. 09 1. 00 26. 33 1. 00 25. 53 1. 00 25. 84 1. 00 26. 00 1. 00 26. 41 1. 00 26. 64	B B B B B B	N C C C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10771 10772 10773 10774 10775 10776 10777 10778 10779	CG	ASP ASP	620 620 620 620 620 621 621 621 621	85. 324 31. 84. 591 32. 84. 914 30. 87. 104 30. 86. 687 31. 87. 144 29. 86. 733 29. 86. 925 27.	334 61.355 074 62.041 306 60.765 610 59.011 610 58.435 409 58.438 213 57.053 752 56.622 782 57.377	1. 00 27. 36 1. 00 27. 95 1. 00 26. 86 1. 00 27. 59 1. 00 27. 47 1. 00 29. 06 1. 00 30. 04 1. 00 33. 33 1. 00 36. 94	B B B B B B	C O O C O N C C C

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					FIG	. 4 -	221			(Continued)
ATOM	10780	กกา	ASN	621	84. 795	26. 940	57.415	1.00 38.23	В	0
ATOM	10781		2 ASN	621	86. 630	25.763	57. 972	1.00 39.37	В	N
ATOM	10782	C	ASN		85. 310	29.639	56. 756	1.00 29.63	В	C
ATOM	10783	Ŏ	ASN		84. 887	29.626	55. 604	1.00 23.03	В	Ö
ATOM	10784	Ň	LYS	622	84. 563	30.007	57. 787	1.00 28.32	В	N
ATOM	10785	CA	LYS	622	83. 195	30. 441	57. 573	1.00 27.00	В	Č
ATOM	10786	CB	LYS	622	82. 303	29. 986	58. 740	1.00 29.24	В	Č
ATOM	10787	CG	LYS	622	82.062	28. 471	58. 738	1.00 23.24	В	
ATOM	10788	CD	LYS	622	81.029	28. 002	59. 761	1.00 33.84	В	C C C
ATOM	10789	CE	LYS	622	81. 527	28. 099	61.197	1.00 35.48	В	Ç
ATOM	10790	NZ	LYS	622	81.571	29. 501	61.703	1.00 36.73	В	Ň
<b>ATOM</b>	10791	C	LYS	622	83. 168	31.957	57. 404	1.00 25.42	B	Č
ATOM	10792	0	LYS	622	82. 145	32. 543	57.047	1.00 26.19	В	ŏ
ATOM	10793	N	ARG	623	84. 314	32.583	57.642	1.00 21.83	B	N
ATOM	10794	CA	ARG	623	84. 436	34.023	57. 515	1.00 18.89	B	Č
ATOM	10795	CB	ARG	623	84. 380	34.664	58. 895	1.00 17.53	B	č
ATOM	10796	CG	ARG	623	83.019	34.573	59.510	1.00 16.79	B	Č
ATOM	10797	CD	ARG	623	83. 122	34.394	60.991	1.00 19.29	B	Č
ATOM	10798	NE	ARG	623	83. 405	35.632	61.690	1.00 19.11	B	N
ATOM	10799	CZ	ARG	623	84. 207	35.718	62.743	1.00 18.68	В	C
ATOM	10800		ARG	623	84.812	34.639	63. 212	1.00 16.76	В	N
ATOM	10801		ARG	623	84. 388	36.884	63.336	1.00 22.60	. В	N
ATOM	10802	C	ARG	623	85. 711	34.440	56. 792	1.00 18.21	В	C
ATOM	10803	0	ARG	623		34.776	57.414	1.00 19.54	В	0
ATOM	10804	N	ILE	624		34. 412	55.468	1.00 16.09	В	N
ATOM	10805	CA	ILE	624		34. 798	54. 629	1.00 16.59	В	C
ATOM	10806	CB	ILE	624		33. 572	53. 991	1.00 18.45	В	C
ATOM	10807		ILE	624		34.017	53. 059	1.00 18.66	В	C
ATOM	10808		ILE	624		32.647	55.088	1.00 19.91	В	C
ATOM.	10809		ILE	624		31.385	54. 564	1.00 22.12	В	C
ATOM	10810	C	ILE	624		35.695	53. 519	1.00 16.74	В	C
ATOM	10811	0	ILE	624		35. 268	52. 710	1.00 17.92	В	0
ATOM ATOM	10812 10813	N CA	ALA	625		36. 939	53. 494	1.00 15.06	В	N
ATOM	10813	CA CB	ALA	625		37. 886	52. 488	1.00 15.59	В	C
ATOM	10814	СВ	ALA	625		39. 174	53. 155	1.00 18.31	В	C
ATOM	10815	Ö	ALA ALA	625 625		38. 159	51.503	1.00 16.90	В	C
ATOM	10817	N	ILE	626		37. 523	51.558	1.00 16.49	В	0
ATOM	10818	CA	ILE	626		39. 107 39. 454	50. 598	1.00 16.75	В	N
ATOM	10819	CB	ILE	626		38. 397	49. 608 48. 478	1.00 17.73	В	C
ATOM	10820	CG2		626		38. 365	47. 742	1.00 19.21	В	C
ATOM	10821	CG1		626		38. 713		1.00 19.01 1.00 18.94	В	C
ATOM	10822	CD1		626		37. 642		1.00 18.94	B B	C
ATOM	10823	C	ILE	626		40.810		1.00 20.76	В	C C
ATOM	10824	Ŏ	ILE	626		41.116		1.00 18.15	В	0
ATOM	10825	N	TRP	627		41.628		1.00 16.65	В	N N
ATOM	10826	CA	TRP	627		12. 938		1.00 15.95	В	C
ATOM	10827	CB	TRP	627		13. 945		1.00 14.07	В	Č
ATOM	10828	CG	TRP	627		44. 713		1.00 12.00	B	č



(Continued) FIG. 4-222 49.646 C 10829 CD2 TRP 627 89.641 46.084 1.00 11.41 В **ATOM** C CE2 TRP 627 90.725 50.500 1.00 10.99 **ATOM** 10830 46.410 В 48.806 C CE3 TRP 89.121 627 47.074 1.00 9.75 B **ATOM** 10831 C CD1 TRP 627 90.198 44.267 50.826 1.00 14.55 В **ATOM** 10832 ATOM 10833 NE1 TRP 627 91.046 45.283 51.208 1.00 10.25 В N CZ2 TRP 91.289 47.681 1.00 C 50.536 9.06 **ATOM** 10834 627 B CZ3 TRP 89.685 48.340 48.844 1.00 9.47 C **ATOM** В 10835 627 **ATOM** CH2 TRP 48.632 8.43 C 10836 627 90.755 49.702 1.00 В 43.489 10837 TRP 627 89.881 47.433 1.00 17.27 В C **ATOM** C 91.027 47.732 43.146 1.00 16.96 0 10838 TRP 627 В **ATOM** 0 **ATOM** 10839 **GLY** 628 89.613 44.351 46.459 1.00 16.52 В N N 90.672 45.675 **ATOM** 10840 CA **GLY** 628 44.947 1.00 16.52 B C 90.186 46.198 44.975 1.00 17.44 C **ATOM** 10841 C **GLY** В 628 **ATOM** 10842 **GLY** 628 88.977 46.441 44.887 1.00 17.88 0 0 В 91.132 46.989 44.479 1.00 15.93 10843 **ATOM** N TRP 629 B N 629 90.841 48.235 43.781 1.00 15.93 В C **ATOM** 10844 CA TRP C **ATOM** 10845 TRP 629 91.480 49.395 44.552 1.00 13.57 В CB 44.341 ATOM 90.867 50.763 1.00 14.96 C 10846 TRP 629 CG В **ATOM** 90.389 51.656 C 10847 CD2 TRP 629 45.360 1.00 13.15 В CE2 TRP 52.830 44.712 C **ATOM** 10848 629 89.944 1.00 13.17 B 1.00 14.07 **ATOM** 10849 CE3 TRP 629 90.296 51.577 46.758 C B 10850 CD1 TRP 629 90.694 51.419 C **ATOM** 43.149 1.00 14.45 В **ATOM** 10851 NE1 TRP 629 90.141 52.657 43.366 1.00 12.77 В N **ATOM** CZ2 TRP 629 89.411 53.921 45.414 1.00 13.59 10852 C В **ATOM** 10853 CZ3 TRP 629 89.767 52.660 47.461 1.00 14.81 В C 1.00 15.16 **ATOM** 10854 CH2 TRP 89.330 53.820 46.782 629 В C **ATOM** 10855 C TRP 629 91.481 48.074 42.399 1.00 17.34 C В 92.571 ATOM 10856 0 TRP 629 47.517 42.285 1.00 18.55 В 0 ATOM 1.00 17.70 10857 N SER 630 90.802 48.538 41.354 В N **ATOM** 10858 SER 630 91.309 48.430 39.982 1.00 17.70 CA В C **ATOM** 10859 CB **SER** 630 92.649 49.144 39.846 1.00 18.19 В C 10860 92.574 1.00 24.67 **ATOM** 0G SER 630 50.437 40.404 B 0 46.977 **ATOM** 10861 C SER 630 91.477 39.563 1.00 17.40 B C 46.235 **ATOM** 10862 0 **SER** 630 90.501 39.469 1.00 18.69 В 0 92.712 1.00 16.34 ATOM 10863 N **TYR** 631 46.565 39.304 В N 45.192 92.951 38.904 ATOM 10864 TYR 631 1.00 15.96 CA C В 44.973 **ATOM TYR** 94.430 38.579 10865 CB 631 1.00 15.36 В C ATOM 10866 CG **TYR** 631 94.689 43.709 37.779 1.00 15.93 C В **ATOM** 10867 CD1 TYR 94.626 42.450 38.380 631 1.00 15.38 C В CE1 TYR 41.287 37.634 **ATOM** 10868 94.830 1.00 16.25 631 В C 36.409 **ATOM** 10869 CD2 TYR 631 94.961 43.773 1.00 15.67 B C 10870 CE2 TYR 95.160 42.620 35.655 ATOM 631 1.00 13.59 В C 41.384 **ATOM** 10871 CZ**TYR** 631 95.092 36.270 1.00 15.96 C В 10872 95.264 40.243 35.525 1.00 14.59 ATOM OH TYR 631 B 0 **ATOM** 10873 C **TYR** 631 92.499 44.286 40.049 1.00 15.68 C B 10874 **TYR** 631 91.949 43.213 39.824 1.00 16.42 ATOM 0 В 0 41.281 **ATOM** 10875 N **GLY** 632 92.723 44.729 1.00 15.56 В N 92.292 ATOM 10876 CA GLY 632 43.950 42.429 1.00 14.43 В C 632 10877 **GLY** 90.777 43.807 42.398 1.00 13.07 ATOM В

										(Continued)
					FIC	G. 4 -	223			(Continued)
										_
ATOM	10878	0	GLY	632	90. 239	42. 771	42.777	1.00 12.09	В	0
ATOM	10879	N	GLY	633	90.087	44. 855	41.946	1.00 12.57	В	N
ATOM	10880	CA	GLY	633	88. 637	44. 800	41.846	1.00 10.88	В	C
ATOM	10881	C	GLY	633	88. 271	43. 743	40.818	1. 00 10. 78	В	C
ATOM	10882	0	GLY	633	87. 337	42. 956	40.986	1.00 9.26	В	0
ATOM	10883	N	TYR	634	89. 031	43. 729	39. 734	1.00 11.33	В	N
ATOM	10884	CA	TYR	634	88. 822	42. 755	38. 682	1.00 11.09	В	C
ATOM	10885	CB	TYR	634	89. 860	42. 951	37. 595	1.00 7.35	В	C
ATOM	10886	CG	TYR	634	89. 815	41.899	36. 526	1.00 8.04	В	C
ATOM	10887	CD1	TYR	634	90. 949	41. 162	36. 204	1.00 7.58	В	C
ATOM	10888		TYR	634	90. 924	40. 218	35. 189	1.00 7.56	В	C C C C
ATOM	10889		TYR	634	88. 649	41.660	35. 805	1.00 8.82	В	C
ATOM	10890		TYR	634	88. 615	40.715	34. 788	1.00 7.88	В	C
ATOM	10891	CZ	TYR	634	89. 756	39. 996	34. 488	1.00 6.90	В	C
ATOM	10892	OH	TYR	634	89. 722	39. 039	33. 504	1.00 8.03	В	0
ATOM	10893	C	TYR	634	88. 967	41. 358	39. 278	1.00 13.02	В	C
ATOM	10894	0	TYR	634	88. 038	40. 548	39. 222	1.00 13.14	В	0
ATOM	10895	N	VAL	635	90.140	41.091	39.858	1.00 14.38	В	N
ATOM	10896	CA	VAL	635	90. 426	39. 796	40. 467	1.00 13.39	В	C
ATOM	10897	CB	VAL	635	91.839	39. 747	41.093	1.00 13.28	В	C
ATOM	10898	CG1		635	91. 995	38. 467	41.923	1.00 13.06	В	C
ATOM	10899	CG2		635	92. 894	39. 782	39. 999	1.00 8.09	В	C
ATOM	10900	C	VAL	635	89. 412	39. 443	41.533	1.00 13.35	В	C
ATOM	10901	0	VAL	635	88. 932	38. 320	41.563	1.00 15.02	В	0
ATOM	10902	N	THR	636	89. 091	40. 394	42. 405	1.00 13.48	В	N
ATOM	10903	CA	THR	636	88. 108	40. 160	43. 457	1.00 13.74	В	C
ATOM	10904	CB	THR	636	87. 788	41.451	44. 260	1.00 15.19	В	C
ATOM	10905	0G1	THR	636	88. 950	41.886	44. 978	1.00 15.24	В	0
ATOM	10906	CG2		636	86. 655	41.188	45. 259	1.00 13.51	В	C
ATOM	10907	C	THR	636	86. 792	39. 665	42.862	1.00 14.57	В	C
ATOM	10908	0	THR	636	86. 160	38. 750	43. 395	1.00 15.29	В	0
ATOM	10909	N	SER	637	86. 373	40. 281	41.762	1.00 15.59	В	N
ATOM	10910	CA	SER	637	85. 120	39. 905	41.112	1.00 15.99	В	C
ATOM	10911	CB	SER	637	84. 698	40. 974	40. 102	1.00 16.88	В	C
ATOM	10912	OG	SER	637	84. 303	42. 158	40.766	1.00 18.07	В	0
ATOM	10913	C	SER	637	85. 195	38. 558	40. 420	1.00 16.54	В	C
ATOM	10914	0	SER	637	84. 250	37. 773	40. 487	1.00 17.87	В	0
ATOM	10915	N	MET	638	86. 309	38. 300	39. 740	1.00 15.64	В	N
ATOM	10916	CA	MET	638	86. 493	37. 030	39.052	1.00 15.55	В	C
ATOM	10917	CB	MET	638	87. 807	37.033	38. 272	1.00 15.97	В	C
ATOM	10918	CG	MET	638	87. 822	37. 959	37.067	1.00 17.38	В	C
ATOM	10919	SD	MET	638	86. 715	37. 422	35. 736	1.00 19.14	В	S
ATOM	10920	CE	MET	638	87. 806	36. 324	34. 798	1.00 15.28	В	C
ATOM	10921	C	MET	638	86. 511	35. 913	40.093	1.00 17.56	В	C
ATOM	10922	0 N	MET	638	86.018	34. 807	39.843	1.00 17.45	В	0 N
ATOM	10923	N CA	VAL	639	87. 086	36. 199	41.260	1.00 16.50	В	N
ATOM	10924 10925	CA CB	VAL VAL	639	87. 133	35. 207	42.317	1.00 17.27	В	C
ATOM	10925	CG1		639 630	88. 047	35. 640	43.480	1.00 16.78	В	C
ATOM	10340	CGI	A VAT	639	87. 648	34. 884	44. 757	1.00 16.23	В	С

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#### (Continued) FIG. 4-224 639 89.495 35.335 **ATOM** 10927 CG2 VAL 43.139 1.00 14.45 C 10928 VAL 639 85.742 34.919 C **ATOM** C 42.875 1.00 17.57 В 85.387 33.760 10929 0 VAL 639 **ATOM** 43.081 1.00 18.52 В 0 10930 LEU 640 84.957 35.964 **ATOM** N 43.124 1.00 16.90 В N ATOM 10931 CA LEU 640 83.618 35.766 43.661 1.00 17.42 C В **ATOM** 10932 82.978 37.098 C CB LEU 640 44.032 1.00 17.45 В LEU 83.512 **ATOM** 10933 CG 37.699 45.327 C 640 1.00 17.52 B **ATOM** 10934 CD1 LEU 640 82.743 38.962 45.654 1.00 14.30 В C 83.378 **ATOM** 10935 CD2 LEU 640 36.677 1.00 15.97 C 46.447 B 10936 82.713 42.699 **ATOM** C LEU 640 35.020 B C 1.00 17.81 ATOM 10937 LEU 640 81.821 34.284 0 43.119 1.00 20.73 В 0 ATOM 10938 N **GLY** 641 82.952 35.198 41.409 1.00 18.14 В N 10939 CA 82.135 **ATOM** GLY 641 34.526 40.418 1.00 17.61 В C **ATOM** 10940 C **GLY** 82.758 33.235 39.936 641 1.00 17.52 $\mathbf{C}$ В 82.346 10941 **GLY** 641 32.697 1.00 15.15 **ATOM** 0 38.911 B 0 10942 N 642 83.735 32.727 **ATOM** SER 40.683 1.00 17.53 В N **ATOM** 10943 CA SER 642 84.419 31.497 40.297 1.00 19.98 В C 31.479 **ATOM** 10944 SER 642 85.841 40.864 1.00 20.78 CB B C **ATOM** 10945 0G SER 642 85.849 31.088 42.226 1.00 21.56 B 0 ATOM 10946 C SER 642 83.691 30. 239 40.755 1.00 21.75 B C 1.00 22.65 ATOM 10947 0 SER 642 83.974 29.147 40.265 В 0 10948 643 **ATOM** N **GLY** 82.768 30.395 41.701 1.00 22.05 B N ATOM 10949 CA GLY 643 82.023 29.258 42.210 1.00 22.58 В C 10950 643 43.130 ATOM GLY 82.811 28.335 C 1.00 24.03 В C **ATOM** 10951 0 **GLY** 643 82.460 27.162 43.271 1.00 26.05 В 0 **ATOM** 10952 **SER** 83.859 N 644 28.849 43.772 1.00 22.41 В N ATOM 10953 CA **SER** 644 84.684 28.024 44.656 1.00 21.56 В C **ATOM** 10954 CB SER 644 86.065 28.657 44.833 1.00 21.02 B C ATOM 10955 0G SER 644 85.992 29.798 45.666 1.00 22.35 В 0 **ATOM** 10956 **SER** 84.084 27.773 1.00 21.06 C 644 46.037 В C **ATOM** 10957 0 SER 644 84.451 26.807 46.707 1.00 23.51 B 0 10958 **GLY** 645 **ATOM** N 83.175 28.643 46.469 1.00 19.50 В N 10959 GLY 645 82.561 47.774 1.00 16.85 **ATOM** CA 28.485 В C **ATOM** 10960 C **GLY** 645 83.484 28.868 48.920 1.00 18.76 В C 10961 0 **GLY** 645 83.111 ATOM 28.771 50.090 1.00 18.32 В 0 10962 **ATOM** VAL 646 84.691 48.591 N 29.320 1.00 18.97 В N 10963 **ATOM** CA VAL 646 85.669 29.695 49.612 1.00 18.18 В C ATOM 10964 CB VAL 646 87.095 29.718 49.029 1.00 19.50 В C 10965 CG1 VAL ATOM 646 88.082 30.202 50.086 1.00 17.45 C В 10966 CG2 VAL 646 87.471 ATOM 28.341 48.516 1.00 17.29 В C **ATOM** 10967 C VAL 646 85.433 31.051 50. 266 1.00 18.24 В C **ATOM** 10968 VAL 646 85.860 31.270 0 51.396 1.00 20.76 В 0 **ATOM** 10969 PHE 647 84.763 N 31.957 49.561 1.00 16.76 В N 10970 CA PHE 647 33.297 **ATOM** 84.525 50.082 1.00 16.60 В C PHE ATOM 10971 CB 647 85.066 34.337 49.094 1.00 16.44 C В **ATOM** 10972 CG PHE 647 86.528 34.204 48.820 1.00 15.63 В C 10973 CD1 PHE 647 **ATOM** 87.455 34.941 49.553 C 1.00 14.72 В 10974 CD2 PHE 647 C **ATOM** 86.985 33.320 47.844 1.00 14.49 В **ATOM** 10975 CE1 PHE 647 88.826

**SUBSTITUTE SHEET (RULE 26)** 

34.800

49.317

1.00 16.66

В

										(Continued)
					FIC	3. 4 -	2 2 5			, , , , , , , , , , , , , , , , , , , ,
ATOM	10976	CE2	PHE	647	88. 356	33. 170	47.600	1.00 16.73	В	С
ATOM	10977	CZ	PHE	647	89. 278	33.913	48. 338	1.00 13.35	В	C
ATOM	10978	Ċ	PHE	647	83.068	33.604	50.365	1.00 16.77	В	C
ATOM	10979	Õ	PHE	647	82.194	33. 328	49.551	1.00 17.32	В	0
ATOM	10980	N	LYS	648	82.819	34.214	51.515	1.00 16.74	В	N
ATOM	10981	CA	LYS	648	81.466	34.565	51.905	1.00 19.64	В	C
ATOM	10982	CB	LYS	648	81.369	34.634	53.429	1.00 19.84	В	C
ATOM	10983	CG	LYS	648	80.069	35. 233	53.911	1.00 21.93	В	C
ATOM	10984	CD	LYS	648	79.876	35.060	55.393	1.00 23.19	В	C
ATOM	10985	CE	LYS	648	78.548	35.645	55.814	1.00 24.97	В	C
ATOM	10986	NZ	LYS	648	78.180	35. 150	57.165	1.00 31.55	В	N
ATOM	10987	C	LYS	648	81.019	35.900	51.308	1.00 21.05	В	C
ATOM	10988	0	LYS	648	79. 851	36.070	50.930	1.00 20.25	В	0
ATOM	10989	N	CYS	649	81.954	36.842	51.237	1.00 20.69	В	N
ATOM	10990	CA	CYS	649	81.670	38. 163	50.711	1.00 21.97	В	C
ATOM	10991	C	CYS	649	82. 928	38.811	50.134	1.00 22.72	В	С
ATOM	10992	0	CYS	649	84.054	38. 437	50.477	1.00 23.68	В	0
ATOM	10993	CB	CYS	649	81.124	39. 045	51.822	1.00 23.52	В	С
ATOM	10994	SG	CYS	649	82. 287	39. 215	53. 208	1.00 26.89	В	S
ATOM	10995	N	GLY	650	82. 728	39. 796	49.267	1.00 20.11	В	N
ATOM	10996	CA	GLY	650	83.850	40.476	48.668	1.00 18.42	В	C
ATOM	10997	C	GLY	650	83. 484	41.895	48. 308	1.00 18.08	В	C
ATOM	10998	0	GLY	650	82.308	42. 198	48. 135	1.00 18.19	В	0
ATOM	10999	N	ILE	651	84. 490	42. 764	48. 209	1.00 17.42	В	N
ATOM	11000	CA	ILE	651	84. 284	44. 162	47.851	1.00 15.98	В	С
ATOM	11001	CB	ILE	651	84.632	45.117	49.014	1.00 15.40	В	С
ATOM	11002		ILE	651	84.386	46. 559	48. 589	1.00 15.87	В	С
ATOM	11003		ILE	651	83. 789	44. 786	50. 242	1.00 15.95	В	С
ATOM	11004	CD1	ILE	651	84.017	45. 721	51.411	1.00 14.84	В	Ċ
ATOM	11005	C	ILE	651	85. 190	44.512	46.679	1.00 16.40	В	C
ATOM	11006	0	ILE	651	86. 404	44. 330	46. 754	1.00 16.63	В	0
ATOM	11007	N	ALA	652	84. 594	45. 025	45.608	1.00 16.04	В	N
ATOM	11008	CA	ALA	652	85. 330	45. 409	44. 413	1.00 15.10	В	C
ATOM	11009	CB	ALA	652	84. 809	44. 629	43. 214	1.00 16.38	В	C
ATOM	11010	C	ALA	652	85. 190	46.908	44. 153	1.00 15.88	В	C
ATOM	11011	0	ALA	652	84. 089	47. 399	43. 895	1.00 14.37	В	0
ATOM	11012	N	VAL	653	86. 308	47. 630	44. 214	1.00 15.73	В	N
ATOM	11013	CA	VAL	653	86. 298	49.070	43. 978	1.00 15.50	В	C
ATOM	11014	CB	VAL	653	87.110	49. 831	45.055	1.00 17.97	В	C
ATOM	11015		VAL	653	87.050	51.327	44. 787	1.00 18.06	В	C
ATOM	11016		VAL	653	86.566	49. 525	46. 446	1.00 18.80	В	C
ATOM	11017	C	VAL	653	86. 905	49. 398	42.624	1.00 15.11	В	C
ATOM ATOM	11018 11019	O N	VAL ALA	653 654	88. 071 86. 106	49. 087	42.373	1.00 14.41	В	0 N
ATOM	11019	CA	ALA	654 654	86. 532	50.031	41.766	1.00 14.05	В	N C
ATOM	11020	CB	ALA	654	87. 424	50. 438 51. 655	40.427	1.00 12.10	В	C
ATOM	11021	CD	ALA	654	87. 258	49. 318	40. 518 39. 700	1.00 12.15 1.00 12.48	B B	C C
ATOM	11022	Ö	ALA	654	88. 364	49. 500	39. 192	1.00 12.48	В	0
ATOM	11023	N	PRO	655	86. 633	48. 141	39. 192	1.00 13.17	В	N N
AT OM	11044	1.4	1110	000	00.000	10.141	00.040	1.00 11.04	D	11

					FIG.	4 -	226				(Continued)
ATOM	11025	CD	PRO	655	_	7. 797	40.088	1, 00	11.50	В	С
ATOM	11026	CA	PRO	655		7.003	38. 954		11.05	B	č
ATOM	11027	CB	PRO	655		5.841	39. 436		11.09	В	Č
ATOM	11028	CG	PR0	655	85.030 4	6.451	39.428	1.00	8.50	В	С
ATOM	11029	C	PR0	655	87.190 4	7.102	37.447	1.00	10.92	В	С
ATOM	11030	0	PRO	655		7.847	36.896	1.00	11.41	В	0
ATOM	11031	N	VAL	656		6.352	36. 791	1.00	9.60	В	N
ATOM	11032	CA	VAL	656		6. 250	35. 345	1.00	9.08	В	C
ATOM	11033	CB	VAL	656		5.888	34. 790	1.00	7. 45	В	C
ATOM	11034		VAL	656		5. 163	33. 451	1.00	5. 90	В	C
ATOM	11035		VAL	656		7. 146	34. 601	1.00	7. 63	В	C
ATOM	11036	C	VAL	656		5.056	35. 224		10. 20	В	C
ATOM	11037	0	VAL	656		4. 152	36.058		10.59	В	0
ATOM	11038	N	SER SER	657 657		5.038	34. 230		11. 76 14. 03	В	N C
ATOM ATOM	11039 11040	CA CB	SER	657		3. 908 4. 375	34. 115 34. 271		13.85	B B	C C
ATOM	11040	OG	SER	657		5. 242	33. 218		15. 07	В	0
ATOM	11041	C	SER	657		3. 153	32. 812		14.66	В	Č
ATOM	11043	ő	SER	657		1.952	32. 743		17. 18	В	Õ
ATOM	11044	Ň	ARG	658		3.860	31. 781		14. 15	B	Ň
ATOM	11045	CA	ARG	658		3. 277	30. 459		13. 24	B	Ċ
ATOM	11046	CB	ARG	658		3. 532	29.670		14. 22	B	Č
ATOM	11047	CG	ARG	658		3.086	28. 231		18.57	В	Č
ATOM	11048	CD	ARG	658	83.436 4	3.470	27. 588		19.40	В	C
ATOM	11049	NE	ARG	658		3. 338	26. 138	1.00	23.11	В	N
ATOM	11050	CZ	ARG	658		2.376	25. 454		22.54	В	C
ATOM	11051	NH1		658		1.445	26.088		21.95	В	N
ATOM	11052		ARG	658		2.361	24. 131		22.77	В	N
ATOM	11053	C	ARG	658		4.014	29.857		12.76	В	C
ATOM	11054	0	ARG	658		5. 239	29. 733		11.97	В	0
ATOM	11055	N	TRP	659		3. 283	29. 476		11.05	В	N
ATOM ATOM	11056 11057	CA	TRP TRP	659 659		3.942 2.918	28. 955		12. 23	В	C
ATOM	11057	CB CG	TRP	659		2. 310 2. 392	28. 777 30. 112		11.99 13.26	В	C
ATOM	11058		TRP	659		2. 392 3. 120	31. 122		12.61	B B	C C
ATOM	11060		TRP	659		2. 271	32. 242		13. 22	В	Č
ATOM	11061		TRP	659		4.412	31. 193		14. 19	В	Č
ATOM	11062		TRP	659		1.163	30. 644		13. 17	B	č
ATOM	11063		TRP	659		1.083	31.920		13. 29	B	Ň
ATOM	11064		TRP	659		2.670	33. 424		13.99	В	Ċ
ATOM	11065	CZ3	TRP	659		4.810	32. 373		13.35	B	č
ATOM	11066	CH2	TRP	659		3. 940	33.468		11.92	B	Č
ATOM	11067	C	TRP	659		4.840	27.730		13. 23	В	Č
ATOM	11068	0	TRP	659		5. 766	27.569	1.00	15.39	В	0
ATOM	11069	N	GLU	660		4. 595	26.871		14.59	В	N
ATOM	11070	CA	GLU	660		5. 453	25. 708		15. 33	В	C
ATOM	11071	CB	GLU	660		1.854	24. 743		18.10	В	C
ATOM	11072	CG	GLU	660		3. 527	24. 130		21.82	В	C
ATOM	11073	CD	GLU	660	86.452 42	2.829	23. 386	1.00	25. 49	В	С

					E I	C 1.	997			(Continued)
					P I	G. 4	221			
ATOM	11074		GLU	660	86.087		22. 279	1.00 29.78	В	0
ATOM	11075		GLU GLU	660	85. 929		23. 914	1.00 26.73	В	0
ATOM	11076	C	GLU	660	87. 719		26. 170	1.00 14.88	В	C
ATOM	11077	0	GLU	660	87. 661		25. 375	1.00 14.50	В	0
ATOM	11078	N	TYR	661	87. 371		27. 450	1.00 14.66	В	N
ATOM	11079	CA	TYR	661	86. 941		27. 977	1.00 15.13	В	C
ATOM	11080	CB	TYR	661	85. 988		29. 168	1.00 15.73	В	C
ATOM	11081	CG	TYR	661	84. 599		28. 872	1.00 19.12	В	C
ATOM ATOM	11082 11083	CD1	TYR TYR	661	83. 823		29. 898	1.00 18.37	В	C C C C
ATOM	11084		TYR	661 661	82. 553		29.653	1.00 19.84	В	C
ATOM	11084		TYR	661	84. 061 82. 782	47. 629 47. 123	27. 581 27. 323	1.00 19.07	В	C
ATOM	11086	CZ	TYR	661	82. 035		28. 367	1.00 20.28 1.00 20.80	B B	C
ATOM	11087	OH	TYR	661	80. 785		28. 142	1.00 20.60	В	0
ATOM	11088	C	TYR	661	88. 146	49. 045	28. 464	1.00 20.00	В	C
ATOM	11089	ŏ	TYR	661	88. 083	50. 266	28. 555	1.00 14.55	В	0
ATOM	11090	Ň	TYR	662	89. 239	48. 355	28. 789	1.00 14.00	В	N
ATOM	11091	CA	TYR	662	90. 411	49.060	29. 289	1.00 15.14	B	Č
ATOM	11092	CB	TYR	662	91. 225	48. 182	30. 240	1.00 13.98	В	č
ATOM	11093	CG	TYR	662	92.049	49.021	31. 187	1.00 14.52	B	č
ATOM	11094	CD1	TYR	662	93. 379	48.699	31.468	1.00 14.22	B	č
ATOM	11095	CE1	TYR	662	94. 168	49.531	32. 255	1.00 11.31	B	Č
ATOM	11096		TYR	662	91. 522	50.194	31.734	1.00 13.44		Ċ
ATOM	11097		TYR	662	92. 297	51.030	32. 520	1.00 13.70	.B B	Ċ
ATOM	11098	CZ	TYR	662	93. 620	50.699	32.776	1.00 13.69	В	C
ATOM	11099	OH	TYR	662	94. 395	51.549	33. 532	1.00 12.84	В	0
ATOM	11100	C	TYR	662	91. 309	49.615	28. 182	1.00 15.44	В	C
ATOM	11101	0	TYR	662	91. 095	49. 337	26. 996	1.00 15.06	В	0
ATOM	11102	N	ASP	663	92. 310	50. 405	28. 569	1.00 13.90	В	N
ATOM.	11103	CA	ASP	663	93. 192	51.026	27. 588	1.00 13.58	В	C
ATOM ATOM	11104	CB	ASP	663	93. 961	52. 192	28. 238	1.00 13.61	В	C
ATOM	11105 11106	CG	ASP ASP	663 663	95. 093	51.741	29. 152	1.00 14.10	В	C
ATOM	11107		ASP	663	95. 223	52. 327	30. 243	1.00 12.30	В	0
ATOM	11108	C	ASP	663	95. 869 94. 139	50. 836 50. 076	28. 780 26. 850	1.00 13.70	В	0
ATOM	11100	ŏ	ASP	663	94. 139	49.045	20. 830 27. 378	1.00 13.21 1.00 13.05	В	C
ATOM	11110	Ň	SER	664	94. 453	50.444	25. 612	1.00 13.05	В	0
ATOM	11111	CA	SER	664	95. 321	49. 658	24. 738	1.00 13.65	B B	N C
ATOM	11112	CB	SER	664	95. 464	50. 364	23. 394	1.00 13.03	В	C
ATOM	11113	0G	SER	664	96. 055	51.642	23. 550	1.00 14.44	В	Õ
ATOM	11114	C	SER	664	96. 714	49. 340	25. 278	1.00 13.42	В	Č
ATOM	11115	0	SER	664	97.066	48.176	25. 438	1.00 12.83	В	ŏ
ATOM	11116	N	VAL	665	97. 503	50. 371	25. 559	1.00 12.98	B	Ň
ATOM	11117	CA	VAL	665	98.865	50.158	26.041	1.00 15.86	B	Ċ
ATOM	11118	CB	VAL	665	99. 547	51.496	26.427	1.00 14.66	B	Č
ATOM	11119	CG1		665	101.023	51.263	26.663	1.00 14.68	B	Č
ATOM	11120	CG2		665	99. 354	52.519		1.00 15.28	В	C
ATOM	11121	C	VAL	665	99. 020	49. 169	27. 206	1.00 15.25	В	C
ATOM	11122	0	VAL	665	99.972	48. 400	27. 242	1.00 15.22	В	0

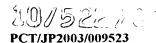


				FIG.	4 -	2 2 8			(Continued)
ATOM ATOM	11123 11124	N TYR CA TYR		98. 091 4	19. 184 18. 276	28. 154 29. 299	1.00 17.07 1.00 15.32	B B	N C
ATOM ATOM	11125 11126	CB TYR	666	97. 504 4	18. 896 17. 997	30. 531 31. 751	1. 00 13. 28 1. 00 12. 79	B B	Č .
ATOM	11127	CD1 TYR	666	96. 595 4	6.920	31.845	1.00 12.27	В	C
ATOM	11128	CE1 TYR			16.089	32.964	1.00 12.60	В	C
ATOM ATOM	11129 11130	CD2 TYR CE2 TYR	666 666		18. 215 17. 390	32. 809 33. 928	1.00 12.83 1.00 11.79	B B	C C
ATOM	11131	CZ TYR	666		6. 332	34. 005	1.00 11.79	B	Č
ATOM	11132	OH TYR	666		5. 531	35. 131	1.00 12.51	B	Ö
ATOM	11133	C TYR	666		6. 922	29.023	1.00 15.26	В	C
ATOM	11134	0 TYR	666		5. 895	29. 399	1.00 18.30	В	0
ATOM ATOM	11135 11136	N THR CA THR	667 667		6.912 5.656	28. 365 28. 097	1.00 14.70 1.00 13.70	B B	N C
ATOM	11137	CR THR	667		5. 925	27.656	1.00 13.70	В	Č
ATOM	11138	OG1 THR	667	93.617 4	6.756	28.635	1.00 11.17	B	Ö
ATOM	11139	CG2 THR	667		4. 624	27. 533	1.00 10.21	В	C
ATOM	11140	C THR	667		4. 792	27.067	1.00 15.29	В	C
ATOM ATOM	11141 11142	O THR N GLU	667 668		3. 626 5. 372	27. 323 25. 906	1.00 16.16 1.00 16.99	B B	0 N
ATOM	11143	CA GLU	668		4. 672	24. 823	1.00 16.90	В	C
ATOM	11144	CB GLU	668		5.612	23.625	1.00 17.50	B	č
ATOM	11145	CG GLU	668		5. 808	22.867	1.00 21.31	В	C
ATOM	11146	CD GLU	668		6. 928	21.850	1.00 22.06	В	C
ATOM ATOM	11147 11148	OE1 GLU OE2 GLU	668 668		7. 054 7. 679	21. 123 21. 767	1.00 25.39 1.00 22.03	B B	0 0
ATOM	11149	C GLU	668		4. 127	25. 247	1.00 22.03	В	C
ATOM	11150	O GLU	668		3. 079	24. 766	1.00 19.28	В	ŏ
ATOM	11151	N ARG	669		4.827	26. 158	1.00 17.62	В	N
ATOM	11152	CA ARG	669		4. 392	26. 640	1.00 17.00	В	C
ATOM ATOM	11153 11154	CB ARG	669 669		5. 291 4. 828	27. 785 28. 451	1.00 17.11 1.00 15.99	В	C
ATOM	11155	CD ARG	669				1.00 15.35	B B	C
ATOM	11156	NE ARG	669	102. 914 4	7. 149	29. 122	1.00 16.25	В	N
ATOM	11157	CZ ARG	669	102.549 4	8. 196	29.856	1.00 16.96	В	C
ATOM	11158	NH1 ARG	669			31.101	1.00 16.86	В	N
ATOM ATOM	11159 11160	NH2 ARG C ARG	669 669		9. 417 2. 960	29. 340 27. 140	1.00 14.86 1.00 17.70	В	N C
ATOM	11161	O ARG	669		2. 300 2. 141	26. 899	1.00 17.70	B B	C 0
ATOM	11162	N TYR	670		2. 655	27. 825	1.00 17.60	B	Ň
ATOM	11163	CA TYR	670		1. 333	28.385	1.00 16.56	В	C
ATOM	11164	CB TYR	670		1.465	29. 810	1.00 15.82	В	C
ATOM ATOM	11165 11166	CG TYR CD1 TYR	670 670		2. 491 3. 706	30. 631 30. 973	1.00 15.47 1.00 14.06	B B	C C
ATOM	11167	CE1 TYR	670		3. 100 4. 676	31.676	1.00 14.00	В	Č
ATOM	11168	CD2 TYR	670		2. 268	31.024	1.00 15.93	В	Č
ATOM	11169	CE2 TYR	670	101.608 43	3. 232	31.732	1.00 15.78	В	C
ATOM	11170	CZ TYR	670		4. 433	32. 051	1.00 15.30	В	C
ATOM	11171	OH TYR	670	101.713 4	5. 403	32. 714	1.00 15.22	В	0

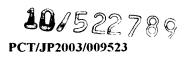


						(Continued)
					FIG. 4-229	, ,
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11172 11173 11174 11175 11176 11177 11178 11179 11180 11181	C O N CA CB CG SD CE C O	TYR TYR MET	670 670 671 671 671 671 671 671 671	98. 435	C O N C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11182 11183 11184 11185 11186 11187 11188 11189 11190	N CA C O N CA CB CG CD1	GLY GLY GLY LEU LEU LEU LEU LEU	672 672 672 672 673 673 673 673	97. 380       41. 092       24. 094       1. 00       20. 28       B         97. 540       41. 063       22. 654       1. 00       19. 08       B         96. 354       41. 807       22. 068       1. 00       21. 12       B         95. 746       42. 629       22. 755       1. 00       21. 18       B         96. 009       41. 534       20. 814       1. 00       21. 68       B         94. 884       42. 225       20. 186       1. 00       21. 44       B         95. 204       42. 569       18. 732       1. 00       22. 03       B         96. 287       43. 627       18. 507       1. 00       24. 89       B         96. 518       43. 837       17. 023       1. 00       23. 45       B	N C C O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11191 11192 11193 11194 11195 11196 11197 11198	C O N CD CA CB CG	LEU LEU PRO PRO PRO PRO PRO	673 673 674 674 674 674	95. 846       44. 932       19. 150       1. 00 27. 67       B         93. 616       41. 399       20. 243       1. 00 21. 68       B         93. 647       40. 173       20. 076       1. 00 21. 49       B         92. 475       42. 061       20. 487       1. 00 21. 61       B         92. 342       43. 487       20. 830       1. 00 20. 79       B         91. 180       41. 388       20. 571       1. 00 20. 99       B         90. 365       42. 347       21. 420       1. 00 19. 09       B         90. 845       43. 664       20. 941       1. 00 18. 24       B	C C O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11199 11200 11201 11202 11203 11204 11205 11206 11207	C O N CA CB OG1 CG2 C	PRO PRO THR THR THR THR THR THR	674 674 675 675 675 675 675 675	90. 589       41. 155       19. 183       1. 00       21. 53       B         89. 470       41. 561       18. 884       1. 00       20. 30       B         91. 378       40. 505       18. 335       1. 00       23. 61       B         90. 973       40. 176       16. 975       1. 00       23. 43       B         92. 045       40. 560       15. 957       1. 00       22. 99       B         93. 221       39. 783       16. 200       1. 00       24. 15       B         92. 386       42. 039       16. 062       1. 00       21. 26       B         90. 825       38. 668       16. 931       1. 00       25. 46       B         91. 424       37. 952       17. 736       1. 00       25. 82       B	C O N C C O C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11208 11209 11210 11211 11212 11213 11214 11215 11216 11217 11218	N CD CA CB CG C O N CA CB CG	PRO PRO PRO PRO PRO PRO GLU GLU GLU GLU	676 676 676 676 676 676 677 677	90. 023  38. 160  15. 991  1. 00  26. 60  B 89. 130  38. 885  15. 074  1. 00  25. 76  B 89. 823  36. 714  15. 877  1. 00  26. 64  B 88. 860  36. 599  14. 702  1. 00  25. 84  B 88. 066  37. 859  14. 801  1. 00  24. 99  B 91. 135  35. 967  15. 630  1. 00  28. 63  B 91. 347  34. 875  16. 160  1. 00  28. 85  B 92. 021  36. 557  14. 834  1. 00  30. 55  B 93. 286  35. 905  14. 534  1. 00  31. 94  B 93. 772  36. 290  13. 135  1. 00  35. 44  B 94. 177  35. 077  12. 294  1. 00  41. 76	N C C C C C O N C C
ATOM ATOM	11219 11220	CD	GLU GLU	677 677	92. 984 34. 204 11. 897 1. 00 46. 15 B 92. 234 34. 610 10. 980 1. 00 49. 52 B	C 0

				FIG	. <b>4</b> -	230			(Continued)
ATOM	11221	0E2 GL	U 677	92. 789	33. 121	12. 503	1.00 46.47	В	0
ATOM	11222	C GL			36. 174	15. 563	1.00 31.51	В	č
ATOM	11223	0 GL		95. 565	35. 938	15. 305	1.00 31.18	B	ŏ
ATOM	11224	N AS		94.003	36.680	16. 730	1.00 29.04	B	Ň
ATOM	11225	CA AS		95.005	36.896	17. 756	1.00 26.71	B	Ċ
ATOM	11226	CB AS		95. 359	38. 374	17. 917	1.00 25.30	B	Č
ATOM	11227	CG AS		96.500	38.586	18.902	1.00 26.53	В	Ċ
ATOM	11228	OD1 AS			39. 721	19.008	1.00 29.18	В	0
ATOM	11229	OD2 AS		96.900	37.612	19.579	1.00 24.47	В	0
ATOM	11230	C AS	P 678	94.586	36.325	19.098	1.00 25.24	В	C
ATOM	11231	0 AS	P 678	94.946	35. 200	19. 426	1.00 26.23	В	0
ATOM	11232	N AS			37.082	19.871	1.00 24.14	В	N
ATOM	11233	CA ASI			36.608	21. 186	1.00 22.47	В	C
ATOM	11234	CB ASI			37.089	22. 217	1.00 23.05	В	C
ATOM	11235	CG ASI			36. 323	23. 524	1.00 22.50	В	C
ATOM	11236	OD1 ASI			36. 880	24. 592	1.00 21.44	В	0
ATOM	11237	ND2 ASI			35. 037	23. 448	1.00 22.30	В	N
ATOM	11238	C ASI			37.061	21.596	1.00 21.85	В	C
ATOM	11239	0 ASI			37. 174	22. 785	1.00 21.56	В	0
ATOM	11240	N LEI			37. 316	20.619	1.00 22.96	В	N
ATOM ATOM	11241 11242	CA LEI			37. 750	20.913	1.00 22.05	В	C
ATOM	11242	CG LEI			37. 967 38. 379	19. 617 19. 734	1.00 20.94 1.00 20.98	B B	C
ATOM	11243	CD1 LEI			39. 671	20. 539	1.00 20.98	В	C C
ATOM	11245	CD2 LEG			38. 567	18. 348	1.00 17.15	В	Č
ATOM	11246	C LE			36. 762	21.805	1.00 22.36	В	Č
ATOM	11247	0 LE			37. 171	22. 718	1.00 23.81	В	Ö
ATOM	11248	N ASI			35. 466	21.555	1.00 22.95	В	N
ATOM	11249	CA ASI			34. 469	22. 371	1.00 24.27	В	Č
ATOM	11250	CB ASI			33.048	21.980	1.00 24.73	B	č
ATOM	11251	CG ASI			32.587	20.695	1.00 25.98	B	Č
ATOM	11252	OD1 ASI	P 681		33. 334	20.116	1.00 28.21	В	0
ATOM	11253	OD2 ASI	P 681	88. 587	31.462	20. 259	1.00 28.60	В	0
ATOM	11254	C ASI			34.655	23.862	1.00 23.99	В	С
ATOM	11255	0 ASI			34.640	24.660	1.00 24.77	В	0
ATOM	11256	N HIS			34. 819	24.252	1.00 22.66	В	N
ATOM	11257	CA HIS			34. 998	25.667	1.00 22.62	В	C
ATOM	11258	CB HIS			34. 867	25. 981	1.00 23.03	В	C
ATOM	11259	CG HIS			34. 898	27. 448	1.00 25.79	В	C
ATOM	11260	CD2 HIS			35. 718	28. 190	1.00 26.73	В	C
ATOM	11261	ND1 HIS			34. 035	28. 338	1.00 25.30	В	N
ATOM ATOM	11262 11263	CE1 HIS			34. 326	29. 565	1.00 26.50	В	C
ATOM	11264	NE2 HIS			35. 344	29. 504	1.00 26.09	В	N C
ATOM	11265	C HIS			36. 344 36. 465	26. 175	1.00 21.71	В	C
ATOM	11266	N TY			30. 405 37. 355	27. 345 25. 307	1.00 20.98 1.00 19.91	B B	0 N
ATOM	11267	CA TYP			38. 657	25. 707	1.00 19.51	В	N C
ATOM	11268	CB TY			39. 646	24. 542	1.00 19.50	В	C
ATOM	11269	CG TYF			40. 574	24. 472	1.00 16.35	В	C
0		111	. 000	00.110		- A. T.	1.00 10.00	ע	V

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F I G. 4 - 231	ontinued)
ATOM 11270 CD1 TYR 683 91.616 40.172 23.877 1.00 16.29 B C	
ATOM 11271 CE1 TYR 683 92.700 41.040 23.786 1.00 16.38 B C	
ATOM 11272 CD2 TYR 683 90.345 41.871 24.980 1.00 16.79 B C	
ATOM 11273 CE2 TYR 683 91.430 42.748 24.893 1.00 14.60 B C	
ATOM 11274 CZ TYR 683 92.598 42.326 24.295 1.00 15.79 B C	
ATOM 11275 OH TYR 683 93.663 43.193 24.192 1.00 16.43 B O	
ATOM 11276 C TYR 683 87.793 38.437 26.150 1.00 21.02 B C	
ATOM 11277 O TYR 683 87.355 38.955 27.174 1.00 20.95 B O	
ATOM 11278 N ARG 684 87.071 37.644 25.367 1.00 22.94 B N	
ATOM 11279 CA ARG 684 85.667 37.349 25.634 1.00 24.36 B C	
ATOM 11280 CB ARG 684 84.992 36.871 24.344 1.00 24.11 B C	
ATOM 11281 CG ARG 684 84.996 37.908 23.234 1.00 25.07 B C	
ATOM 11282 CD ARG 684 84.197 39.132 23.639 1.00 25.30 B C	
ATOM 11283 NE ARG 684 84.453 40.275 22.767 1.00 27.33 B N	
ATOM 11284 CZ ARG 684 84.126 40.344 21.480 1.00 27.26 B C	
ATOM 11285 NH1 ARG 684 83.518 39.327 20.880 1.00 27.78 B N	
ATOM 11286 NH2 ARG 684 84.409 41.443 20.794 1.00 26.25 B N	
ATOM 11287 C ARG 684 85.401 36.340 26.745 1.00 24.46 B C	
ATOM 11288 O ARG 684 84.275 36.239 27.231 1.00 26.21 B O	
ATOM 11289 N ASN 685 86.421 35.591 27.148 1.00 24.53 B N	
ATOM 11290 CA ASN 685 86.243 34.593 28.201 1.00 23.44 B C	
ATOM 11291 CB ASN 685 86.959 33.294 27.823 1.00 26.13 B C	
ATOM 11292 CG ASN 685 86.132 32.430 26.904 1.00 33.00 B C	
ATOM 11293 OD1 ASN 685 85.076 31.924 27.296 1.00 35.72 B 0	
ATOM 11294 ND2 ASN 685 86.594 32.260 25.667 1.00 36.03 B N	
ATOM 11295 C ASN 685 86.716 35.043 29.575 1.00 20.60 B C	
ATOM 11296 0 ASN 685 86.472 34.361 30.566 1.00 20.98 B 0	
ATOM 11297 N SER 686 87.382 36.186 29.644 1.00 16.28 B N	
ATOM 11298 CA SER 686 87.887 36.666 30.918 1.00 16.33 B C	
ATOM 11299 CB SER 686 89.360 37.063 30.773 1.00 17.18 B C	
ATOM 11300 OG SER 686 89.530 38.050 29.768 1.00 17.94 B 0	
ATOM 11301 C SER 686 87.089 37.837 31.486 1.00 15.71 B C	
ATOM 11302 O SER 686 87.625 38.667 32.221 1.00 13.91 B O	
ATOM 11303 N THR 687 85.807 37.905 31.155 1.00 14.37 B N	
ATOM 11304 CA THR 687 84.989 38.992 31.655 1.00 15.19 B C	
ATOM 11305 CB THR 687 83.899 39.401 30.639 1.00 16.80 B C	
ATOM 11306 OG1 THR 687 82.915 38.362 30.537 1.00 18.14 B 0	
ATOM 11307 CG2 THR 687 84.519 39.657 29.265 1.00 16.92 B C	
ATOM 11308 C THR 687 84.309 38.605 32.957 1.00 14.86 B C	
ATOM 11309 O THR 687 84.153 37.425 33.264 1.00 13.79 B O ATOM 11310 N VAL 688 83.910 39.616 33.717 1.00 14.71 B N	
The state of the s	
ATOM 11311 CA VAL 688 83.224 39.411 34.977 1.00 14.27 B C ATOM 11312 CB VAL 688 83.239 40.691 35.824 1.00 15.67 B C	
· · · · · · · · · · · · · · · · · · ·	
ATOM 11315 C VAL 688 81.777 39.048 34.687 1.00 14.74 B C ATOM 11316 O VAL 688 81.196 38.188 35.350 1.00 15.40 B O	
ATOM 11317 N MET 689 81.209 39.710 33.682 1.00 13.94 B N	
ATOM 11318 CA MET 689 79.826 39.496 33.283 1.00 14.18 B C	



						(Continued)
					F I G. 4 - 232	
ATOM	11319	CB	MET	689	79. 519 40. 287 32. 010 1. 00 14. 10 B	С
ATOM	11320	CG	MET	689	79. 359 41. 793 32. 217 1. 00 18. 18 B	
ATOM	11321	SD	MET	689	80. 817 42. 684 32. 849 1. 00 21. 67 B	
ATOM	11322	CE	MET	689	81.693 43.067 31.308 1.00 19.11 B	С
ATOM	11323	C	MET	689	79. 429 38. 040 33. 080 1. 00 13. 66 B	
ATOM	11324	0	MET	689	78. 398 37. 597 33. 586 1. 00 14. 01 B	
ATOM	11325	N	SER	690	80. 246 37. 290 32. 356 1. 00 14. 32 B	
ATOM	11326 11327	CA	SER	690	79. 939 35. 887 32. 087 1. 00 16. 68 B	C
ATOM ATOM	11328	CB OG	SER SER	690 690	81. 018 35. 259 31. 199 1. 00 18. 28 B 82. 225 35. 062 31. 923 1. 00 23. 11 B	C
ATOM	11329	C	SER	690		0
ATOM	11330	Ö	SER	690		C
ATOM	11331	N	ARG	691	79. 212 33. 927 33. 234 1. 00 16. 21 B 80. 238 35. 502 34. 478 1. 00 14. 35 B	O N
ATOM	11332	CA	ARG	691	80. 155 34. 741 35. 727 1. 00 15. 38 B	C
ATOM	11333	CB	ARG	691	81. 491 34. 821 36. 478 1. 00 16. 76 B	Č
ATOM	11334	CG	ARG	691	82. 697 34. 414 35. 652 1. 00 19. 96 B	Č
ATOM	11335	CD	ARG	691	83. 972 34. 339 36. 483 1. 00 21. 36 B	č
ATOM	11336	NE	ARG	691	85. 061 33. 725 35. 726 1. 00 23. 56 B	Ň
ATOM	11337	CZ	ARG	691	86. 196 33. 274 36. 256 1. 00 26. 24 B	Č
ATOM	11338	NH1		691	86. 418 33. 358 37. 567 1. 00 23. 55 B	Ň
ATOM	11339	NH2		691	87.114 32.728 35.468 1.00 26.33 B	N
ATOM	11340	C	ARG	691	79. 049 35. 187 36. 679 1. 00 15. 48 B	C
ATOM	11341	0	ARG	691	78. 986 34. 713 37. 817 1. 00 14. 38 B	0
ATOM	11342	N	ALA	692	78. 178 36. 081 36. 220 1. 00 14. 78 B	N
ATOM	11343	CA	ALA	692	77. 111 36. 618 37. 064 1. 00 16. 42 B	C
ATOM ATOM	11344	CB	ALA	692	76. 105 37. 383 36. 198 1. 00 16. 75 B	Č
ATOM	11345 11346	C	ALA	692	76. 375 35. 624 37. 977 1. 00 17. 17 B	C
ATOM	11347	O N	ALA GLU	692 693	76. 331 35. 814 39. 191 1. 00 16. 75 B 75. 803 34. 571 37. 404 1. 00 19. 44 B	0
ATOM	11348	CA	GLU	693		N
ATOM	11349	CB	GLU	693	75. 062 33. 589 38. 191 1. 00 22. 16 B 74. 570 32. 443 37. 299 1. 00 26. 71 B	C
ATOM	11350	CG	GLU	693	73. 251 32. 745 36. 598 1. 00 33. 79 B	C C
ATOM	11351	CD	GLU	693	73. 017 31. 873 35. 379 1. 00 38. 47 B	C
ATOM	11352		GLU	693	72. 984 30. 632 35. 531 1. 00 40. 41 B	0
ATOM	11353	0E2		693	72. 870 32. 433 34. 266 1. 00 41. 15 B	ő
ATOM	11354	C	GLU	693	75. 827 33. 022 39. 369 1. 00 22. 08 B	Č
ATOM	11355	0	GLU	693	75. 244 32. 761 40. 418 1. 00 24. 44 B	Ö
ATOM	11356	N	ASN	694	77. 127 32. 824 39. 215 1. 00 21. 66 B	Ň
ATOM	11357	CA	ASN	694	77. 907 32. 282 40. 320 1. 00 22. 61 B	С
ATOM	11358	CB	ASN	694	79. 324 31. 924 39. 861 1. 00 20. 93 B	C
ATOM	11359	CG	ASN	694	79. 359 30. 654 39. 048 1. 00 19. 32 B	C
ATOM	11360			694	80. 284 30. 420 38. 278 1. 00 19. 68 B	0
ATOM ATOM	11361 11362	NDZ C	ASN	694	78. 348 29. 818 39. 224 1. 00 18. 34 B	N
ATOM	11362	0	ASN ASN	694 694	77. 975 33. 234 41. 500 1. 00 22. 99 B	C
ATOM	11364	N	PHE	695	78. 650 32. 946 42. 479 1. 00 25. 59 B 77. 283 34. 366 41. 419 1. 00 22. 83 B	0
ATOM	11365	CA	PHE	695	77 000 OF 010 10 TO	N C
ATOM	11366	CB	PHE	695	77 00	C
ATOM	11367	CG	PHE	695	77. 205 36. 772 42. 041 1. 00 20. 88 B 78. 533 37. 397 41. 695 1. 00 19. 06 B	C C
*		-	_		13.00 д. 12.000 д. 00 д. 00 д	C

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					E 1 (	G. 4-				(Continued)
										_
ATOM	11368		PHE	695	79. 211	37. 042	40. 533	1.00 19.50	В	C
ATOM	11369		PHE PHE	695 695	79. 096 80. 431	38. 365 37. 647	42. 523 40. 200	1.00 19.69 1.00 18.29	В	C
ATOM ATOM	11370 11371		PHE	695	80. 316	38. 977	40. 200	1.00 18.29	B B	C C
ATOM	11371	CZ	PHE	695	80. 982		41.033	1.00 18.33	В	C
ATOM	11372	C	PHE	695	76.146	35. 052	43. 483	1.00 24.37	В	Č
ATOM	11373	Õ	PHE	695	76.090	35. 636	44. 566	1.00 24.37	В	0
ATOM	11375	N	LYS	696	75. 230	34. 173	43. 089	1.00 24.40	В	N
ATOM	11376	CA	LYS	696	74.074	33. 880	43. 926	1.00 25.82	В	Č
ATOM	11377	CB	LYS	696	73. 173	32. 813	43. 280	1.00 27.75	B	č
ATOM	11378	CG	LYS	696	72.076	32. 281	44. 228	1.00 30.02	B	č
ATOM	11379	CD	LYS	696	70.680	32. 287	43.615	1.00 31.63	B	Č.
ATOM	11380	CE	LYS	696	70.137	33. 705	43. 421	1.00 35.45	В	C
ATOM	11381	NZ	LYS	696	69.903	34. 438	44.705	1.00 35.47	В	N
ATOM	11382	C	LYS	696	74.402	33. 459	45.348	1.00 24.85	В	С
ATOM	11383	0	LYS	696	73.583	33.641	46. 242	1.00 24.94	В	0
ATOM	11384	N	GLN	697	75. 587	32. 907	45.577	1.00 25.99	В	N
ATOM	11385	CA	GLN	697	75.920	32. 481	46. 931	1.00 27.33	В	C
ATOM	11386	CB	GLN	697	76.355	31.010	46. 941	1.00 29.90	В	C C
ATOM	11387	CG	GLN	697	75. 290	30. 025	46. 444	1.00 30.66	В	
ATOM	11388	CD	GLN	697	75. 565	28. 593	46. 889	1.00 30.92	В	C
ATOM	11389	0E1		697	75. 381	28. 245	48. 065	1.00 31.54	В	0
ATOM	11390	NE2		697	76.019	27. 761	45. 958	1.00 26.21	В	N
ATOM	11391	C	GLN	697	76.964	33. 322	47.662	1.00 26.04	В	C
ATOM	11392	0 N	GLN	697	77.620	32. 833	48. 580	1.00 28.31	В	0
ATOM ATOM	11393 11394	N CA	VAL VAL	698 698	77. 125	34. 580	47. 270	1.00 23.16	В	N
ATOM	11394	CB	VAL	698	78. 085 79. 411	35. 445 35. 596	47. 947 47. 156	1.00 21.23	В	C
ATOM	11396		VAL	698	80. 033	34. 238	46.901	1.00 20.63 1.00 17.19	В	C
ATOM	11397		VAL	698	79.161	36. 335	45.853	1.00 17.19	B B	C C
ATOM	11398	C	VAL	698	77. 496	36.829	48.118	1.00 18.30	В	C
ATOM	11399	ŏ	VAL	698	76. 571	37. 207	47. 404	1.00 21.30	В	Ö
ATOM	11400	Ň	GLU	699	78.018	37. 579	49.078	1.00 23.00	В	N N
ATOM	11401	CA	GLU	699	77. 563	38. 945	49. 290	1.00 21.01	В	Č
ATOM	11402	CB	GLU	699	77. 465	39. 246	50. 785	1.00 22.73	В	č
ATOM	11403	CG	GLU	699	76.396	38. 403	51.461	1.00 26.07	B	č
ATOM	11404	CD	GLU	699	76.547	38.346	52.961	1.00 29.09	B	Č
ATOM	11405	0E1	GLU	699	76.343	39.387	53.624	1.00 31.29	B	0
ATOM	11406	0E2	GLU	699	76.876	37. 254	53.476	1.00 31.07	B	0
ATOM	11407	C	GLŲ	699	78.610	39.810	48.593	1.00 21.23	В	C
ATOM	11408	0	GLU	699	79.802	39.751	48.905	1.00 21.45	В	0
ATOM	11409	N	TYR	700	78. 148	40. 594	47.630	1.00 19.47	В	N
ATOM	11410	CA	TYR	700	79.012	41.428	46.818	1.00 18.26	В	C
ATOM	11411	CB	TYR	700	78. 830	41.001	45. 368	1.00 18.24	В	С
ATOM	11412	CG	TYR	700	79. 678	41.685	44. 330	1.00 18.56	В	C
ATOM	11413	CD1	TYR	700	81.071	41.698	44. 422	1.00 17.75	В	C
ATOM	11414		TYR	700	81.856	42. 206	43. 378	1.00 17.99	В	C
ATOM	11415		TYR	700 700	79. 088	42. 209	43. 181	1.00 19.07	В	C
ATOM	11416	CEZ	TYR	700	79.852	42.715	42.143	1.00 19.54	В	С

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					(Continued)
				FIG. 4-234	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11417 11418 11419 11420 11421 11422 11423 11424 11425 11426 11427 11428	CZ TYR OH TYR C TYR O TYR N LEU CA LEU CB LEU CG LEU CD1 LEU CD2 LEU C LEU O LEU N LEU	700 700 700 700 701 701 701 701 701 701	81. 231       42. 707       42. 241       1. 00 19. 61       B         81. 964       43. 170       41. 176       1. 00 20. 17       B         78. 697       42. 902       46. 972       1. 00 18. 20       B         77. 534       43. 288       47. 006       1. 00 19. 67       B         79. 748       43. 714       47. 078       1. 00 16. 71       B         79. 628       45. 157       47. 198       1. 00 15. 24       B         80. 102       45. 624       48. 573       1. 00 14. 82       B         80. 195       47. 141       48. 768       1. 00 15. 42       B         78. 926       47. 810       48. 280       1. 00 16. 37       B         80. 449       47. 456       50. 233       1. 00 13. 32       B         80. 491       45. 770       46. 095       1. 00 16. 15       B         81. 714       45. 617       46. 082       1. 00 16. 12       B         79. 829       46. 450       45. 167       1. 00 14. 91       B	C O C O N C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11430 11431 11432 11433 11434 11435 11436 11437 11438	CA LEU CB LEU CG LEU CD1 LEU CD2 LEU C LEU O LEU N ILE CA ILE	702 702 702 702 702 702 702 703 703	80. 467       47. 073       44. 019       1. 00       13. 94       B         79. 730       46. 627       42. 753       1. 00       15. 12       B         80. 119       47. 175       41. 383       1. 00       15. 68       B         81. 555       46. 814       41. 050       1. 00       14. 64       B         79. 173       46. 593       40. 354       1. 00       16. 45       B         80. 419       48. 590       44. 169       1. 00       14. 21       B         79. 346       49. 166       44. 314       1. 00       14. 96       B         81. 591       49. 220       44. 132       1. 00       13. 90       B         81. 737       50. 662       44. 294       1. 00       13. 91       B	C C C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM	11439 11440 11441 11442 11443 11444 11445	CB ILE CG2 ILE CG1 ILE CD1 ILE C ILE O ILE N HIS	703 703 703 703 703 703 704	82. 543       50. 967       45. 578       1. 00 13. 87       B         82. 693       52. 491       45. 775       1. 00 15. 37       B         81. 869       50. 308       46. 782       1. 00 12. 11       B         82. 714       50. 328       48. 047       1. 00 7. 95       B         82. 495       51. 251       43. 101       1. 00 15. 43       B         83. 379       50. 600       42. 548       1. 00 17. 12       B         82. 175       52. 484       42. 714       1. 00 14. 44       B	C C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11446 11447 11448 11449 11450 11451 11452	CA HIS CB HIS CG HIS CD2 HIS ND1 HIS CE1 HIS NE2 HIS C HIS	704 704 704 704 704 704 704 704	82. 866       53. 098       41. 579       1. 00       14. 11       B         82. 483       52. 356       40. 288       1. 00       12. 85       B         83. 539       52. 386       39. 224       1. 00       13. 44       B         84. 363       53. 377       38. 806       1. 00       12. 54       B         83. 827       51. 293       38. 435       1. 00       12. 00       B         84. 782       51. 607       37. 578       1. 00       10. 09       B         85. 125       52. 865       37. 782       1. 00       12. 68       B         82. 533       54. 584       41. 457       1. 00       13. 37       B	C C C N C N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11454 11455 11456 11457 11458 11459 11460 11461 11462 11463 11464	O HIS N GLY CA GLY O GLY N THR CA THR CB THR OG1 THR CG2 THR C THR O THR	704 705 705 705 706 706 706 706 706 706 706	81. 420       55. 007       41. 770       1. 00       15. 67       B         83. 513       55. 372       41. 027       1. 00       10. 99       B         83. 308       56. 798       40. 860       1. 00       10. 39       B         82. 807       57. 082       39. 457       1. 00       10. 13       B         83. 326       56. 536       38. 483       1. 00       11. 85       B         81. 805       57. 942       39. 347       1. 00       10. 36       B         81. 215       58. 272       38. 054       1. 00       9. 96       B         79. 935       59. 072       38. 232       1. 00       6. 56       B         80. 251       60. 367       38. 739       1. 00       8. 64       B         79. 025       58. 372       39. 215       1. 00       8. 26       B         82. 145       59. 052       37. 147       1. 00       11. 88       B         81. 994       59. 018       35. 927       1. 00       13. 83       B	0 N C C O N C C C O

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					FIG	G. 4-	235			(Continued)
ATOM	11466	N	ALA	707	83. 114	59. 741	37. 739	1.00 13.21	В	N
ATOM	11467	CA	ALA	707	84.075	60. 522	36.969	1.00 14.57	В	С
ATOM	11468	CB	ALA	707	84. 277	61.881	37.626	1.00 17.64	В	C
ATOM	11469	C	ALA	707	85. 427	59.823	36.802	1.00 13.77	В	C
ATOM	11470	0	ALA	707	86.445	60.484	36.639	1.00 14.15	В	0
ATOM	11471	N	ASP	708	85.435	58. 494	36.839	1.00 13.35	В	N
ATOM	11472	CA	ASP	708	86.667	57. 721	36.685	1.00 12.65	В	C
ATOM	11473	CB	ASP	708	86. 439	<b>56.</b> 285	37. 188	1.00 12.24	В	C
ATOM	11474	CG	ASP	708	87. 737	55. 536	37. 453	1.00 10.05	В	C
ATOM	11475	0D1		708	88. 738	55. 775	36. 749	1.00 11.19	В	0
ATOM	11476		ASP	708	87. 751	54.686	38. 362	1.00 9.31	В	0
ATOM	11477	C	ASP	708	87. 091	57.696	35. 202	1.00 13.18	В	С
ATOM	11478	0	ASP	708	86. 475	57.023	34. 368	1.00 13.78	В	0
ATOM	11479	N	ASP	709	88. 156	58. 423	34.891	1.00 12.80	В	N
ATOM	11480	CA	ASP	709	88. 679	58. 520	33. 534	1.00 12.65	В	C
ATOM	11481	CB	ASP	709	89. 442	59.825	33. 397	1.00 11.74	В	C
ATOM	11482	CG	ASP	709	90.612	59. 912	34. 366	1.00 9.63	В	C
ATOM	11483		ASP	709	91.704	59. 385	34.058	1.00 2.39	В	0
ATOM	11484		ASP	709	90.419	60.499	35. 451	1.00 11.84	В	0
ATOM	11485	C	ASP	709	89.605	57. 366	33. 167	1.00 14.57	В	C
ATOM	11486	0	ASP	709	89. 896	57. 136	31. 987	1.00 16.47	В	0
ATOM	11487	N	ASN	710	90.076	56.652	34. 182	1.00 13.58	В	N
ATOM	11488	CA	ASN	710	90. 981	55. 524	33. 990	1.00 13.56	В	C
ATOM ATOM	11489	CB	ASN	710	91.841	55. 385	35. 243	1.00 13.26	В	C
ATOM	11490	CG	ASN	710	92. 987	54. 440	35.059	1.00 12.07	В	C
ATOM	11491 11492		ASN	710	93. 951	54. 478	35.821	1.00 16.69	В	0
ATOM	11492		ASN	710	92.898	53. 578	34.058	1.00 8.28	В	N
ATOM	11493	C 0	ASN ASN	710	90.177	54. 236	33. 724	1.00 14.26	В	C
ATOM	11494	N	VAL	710 711	90. 142 89. 560	53. 737	32.598	1.00 14.29	В	0
ATOM	11496	CA	VAL	711	88. 715	53. 692 52. 511	34. 773 34. 652	1.00 13.24 1.00 12.56	В	N
ATOM	11497	CB	VAL	711	88. 835	51.585	35. 868	1.00 12.30	В	C
ATOM	11498		VAL	711	88. 048			1.00 11.72	В	C
ATOM	11499		VAL	711	90. 287	51.274	36. 141	1.00 13.94	B B	C
ATOM	11500	C	VAL	711	87. 315	53. 119	34. 645	1.00 13.34	В	C C
ATOM	11501	ŏ	VAL	711	86. 768	53. 471	35. 694	1.00 14.01	В	0
ATOM	11502	Ň	HIS	712	86. 746	53. 249	33. 456	1.00 13.66	В	N N
ATOM	11503		HIS	712	85. 440	53. 869	33. 290	1.00 13.00	В	C
ATOM	11504		HIS	712	85. 132	53.956	31. 794	1.00 13.44	B	Č
ATOM	11505		HIS	712	86. 219	54.613	31.001	1.00 14.38	В	Č
ATOM	11506		HIS	712	87. 137	55. 549	31. 352	1.00 15.50	В	č
ATOM	11507		HIS	712	86.477	54. 299	29.684	1.00 15.76	B	Ň
ATOM	11508		HIS	712	87. 510	55.009	29. 258	1.00 17.42	В	Č
ATOM	11509		HIS	712	87. 928	55.775	30. 251	1.00 16.57	В	Ň
ATOM	11510	C	HIS	712	84. 293	53. 205	34. 048	1.00 13.09	B	Ċ
ATOM	11511	0	HIS	712	84. 208	51.983	34. 148	1.00 13.25	B	ŏ
ATOM	11512	N	PHE	713	83.420	54.041	34.594	1.00 13.27	B	Ň
ATOM	11513	CA	PHE	713	82. 253	53.586	35. 335	1.00 15.36	B	Č
ATOM	11514	CB	PHE	713	81. 288	54.759	35.530	1.00 15.17	В	C

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										(Continued)
					FIC	G. 4-	2 3 6			(0011011111011)
ATOM	11515	CG	PHE	713	80. 156	54. 464	36. 461	1.00 16.61	В	С
ATOM	11516		PHE	713	80. 346	54. 508	37. 841	1.00 14.51	B	č
ATOM	11517		PHE	713	78. 901	54. 111	35.962	1.00 15.42	$\tilde{\mathbf{B}}$	Č
ATOM	11518		PHE	713	79.304	54. 204	38.710	1.00 14.71	B	Č
ATOM	11519		PHE	713	77.848	53.803	36.829	1.00 15.24	В	<b>C</b> .
ATOM	11520	CZ	PHE	713	78.051	53.849	38. 204	1.00 13.41	В	C
ATOM	11521	C	PHE	713	81.586	52.486	34. 499	1.00 16.62	В	C
ATOM	11522	0	PHE	713	81.015	51.527	35.031	1.00 16.48	В	0
ATOM	11523	N	GLN	714	81.673	52.649	33. 181	1.00 15.73	В	N
ATOM	11524	CA	GLN	714	81.121	51.699	32. 228	1.00 16.08	В	C
ATOM	11525	CB	GLN	714	81. 753	51.923	30.857	1.00 14.90	В	C .
ATOM	11526	CG	GLN	714	81.699	50. 703	29. 946	1.00 16.13	В	C
ATOM	11527	CD	GLN	714	82.661	50.811	28. 770	1.00 15.37	В	C
ATOM	11528	0E1		714	83. 821	51.167	28. 943	1.00 15.11	В	0
ATOM	11529		GLN	714	82. 183	50.493	27. 577	1.00 15.35	B	N
ATOM	11530	C	GLN	714	81. 372	50. 256	32.650	1.00 16.29	В	C
ATOM	11531	0	GLN	714	80. 512	49.389	32. 487	1.00 17.82	В	0
ATOM	11532 11533	N CA	GLN	715	82. 554 82. 900	49.997	33. 192	1.00 14.60	В	N
ATOM ATOM	11534	CA CB	GLN GLN	715 715	84. 395	48. 646 48. 581	33. 593 33. 926	1.00 14.55 1.00 16.22	В	C
ATOM	11534	CG	GLN	715 715	85. 270	49. 086	32. 767	1.00 16.22	B B	C C
ATOM	11536	CD	GLN	715	86. 507	48. 247	32. 537	1.00 10.01	В	C
ATOM	11537	0E1		715	86. 470	47. 029	32. 674	1.00 14.28	В	0
ATOM	11538		GLN	715	87. 601	48. 889	32. 155	1.00 12.78	В	N N
ATOM	11539	C	GLN	715	82. 031	48. 134	34. 746	1.00 14.99	В	Č
ATOM	11540	Ŏ	GLN	715	81.616	46.967	34. 749	1.00 13.70	В	ŏ
ATOM	11541	Ň	SER	716	81.742	49.002	35. 714	1.00 12.14	B	Ň
ATOM	11542	CA	SER	716	80.893	48.602	36. 829	1.00 11.18	B	Ċ
ATOM	11543	CB	SER	716	81.057	49.544	38.028	1.00 11.19	В	Č
ATOM	11544	0G	SER	716	82.278	49. 295	38.700	1.00 13.48	В	0
ATOM	11545	C	SER	716	79.432	48.570	36. 394	1.00 9.18	В	С
ATOM	11546	0	SER	716	78.682	47.692	36.814	1.00 5.81	В	0
ATOM	11547	N	ALA	717	79.026	49.517	35. 552	1.00 8.69	В	N
ATOM	11548	CA		717	77.639	49.537	35.083	1.00 10.91	В	С
ATOM	11549	CB	ALA	717	77.400	50.708	34. 143	1.00 10.07	В	C
ATOM	11550	C	ALA	717	77. 304	48. 219	34. 382	1.00 10.72	В	С
ATOM	11551	0	ALA	717	76. 212	47. 696	34. 539	1.00 14.08	В	0
ATOM	11552	N	GLN	718	78. 252	47. 682	33. 623	1.00 10.89	В	N
ATOM	11553	CA	GLN	718	78. 052	46.417	32. 928	1.00 10.32	В	C
ATOM ATOM	11554	CB	GLN	718	79. 137	46. 224	31. 858	1.00 8.83	В	C
ATOM	11555	CG	GLN	718	79.074	47. 232	30. 722	1.00 6.53	В	C
ATOM	11556 11557	CD	GLN	718 718	78. 002 76. 970	46. 900	29. 691	1.00 8.70	В	C
ATOM	11558		GLN GLN	718 718	78. 243	46. 319 47. 278	30. 012 28. 449	1.00 13.43 1.00 11.12	B B	0 N
ATOM	11559	C	GLN	718	78. 056	45. 235	33. 908	1.00 11.12	В	N C
ATOM	11560	Ö	GLN	718	77. 357	44. 248	33. 695	1.00 10.08	В	0
ATOM	11561	N	ILE	719	78. 834	45. 320	34. 981	1.00 13.48	В	N N
ATOM	11562	CA	ILE	719	78.851	44. 226	35. 953	1.00 12.24	В	C
ATOM	11563	CB	ILE	719	79. 892	44. 434	37. 079	1.00 12.11	В	Č
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					ב ב	G. 4-	. 9 9 7			(Continued)
					РТ	G. 4 -	231			
ATOM	11564		ILE	719	79.550		38. 266	1.00 9.78	B	C
ATOM	11565		ILE	719	81.302		36. 560	1.00 13.61	В	C
ATOM	11566		ILE	719	82.383		37. 643	1.00 12.97	В	C
ATOM	11567	C	ILE	719	77. 494		36. 621	1.00 12.95	В	C
ATOM	11568	0	ILE	719	76. 932		36. 757	1.00 13.41	В	0
ATOM	11569	N	SER	720	76. 979		37. 043	1.00 12.96	В	N
ATOM	11570	CA	SER	720	75. 694		37. 716	1.00 13.07	В	C
ATOM	11571 11572	CB	SER	720	75.418		38. 211	1.00 12.56	В	C
ATOM	11572	OG C	SER SER	720 720	75. 435 74. 558		37. 147 36. 814	1.00 15.69 1.00 14.11	B B	0 C
ATOM ATOM	11573	0	SER	720 720	73. 712		37. 238	1.00 14.11	В	0
ATOM	11575	N	LYS	721	74. 536		35. 569	1.00 13.45	В	N
ATOM	11576	CA	LYS	721	73. 474		34. 664	1.00 12.31	В	Č
ATOM	11577	CB	LYS	721	73. 647		33. 303	1.00 14.01	В	č
ATOM	11578	CG	LYS	721	72. 613		32. 264	1.00 10.06	В	č
ATOM	11579	CD	LYS	721	72. 241		31.378	1.00 10.77	B	č
ATOM	11580	CE	LYS	721	73.427		30.611	1.00 9.97	B	Č
ATOM	11581	NZ	LYS	721	73.939		29.595	1.00 11.67	B	Ň
ATOM	11582	C	LYS	721	73. 431		34.504	1.00 15.75	В	C
ATOM	11583	0	LYS	721	72.349	42.803	34.403	1.00 14.39	В	0
ATOM	11584	N	ALA	722	74.605		34.501	1.00 14.45	В	N
ATOM	11585	CA	ALA	722	74. 684		34. 353	1.00 13.03	В	C
ATOM	11586	CB	ALA	722	76. 137		34. 146	1.00 11.46	В	C
ATOM	11587	C	ALA	722	74. 083		35.564	1.00 14.14	В	C
ATOM	11588	0	ALA	722	73. 369		35. 417	1.00 14.70	В	0
ATOM	11589	N	LEU	723	74. 358		36. 758	1.00 13.91	В	N
ATOM	11590	CA	LEU	723	73. 832		37. 974	1.00 15.06	В	C
ATOM	11591	CB	LEU	723	74. 442		39. 204	1.00 16.63	В	C
ATOM ATOM	11592 11593	CG CD1	LEU	723 723	75. 957		39.306	1.00 16.43	В	C
ATOM	11593	CD1		723	76. 504 76. 280		40. 415 39. 546	1.00 18.97	В	C C
	11595			723	72. 323			1.00 15.22 1.00 16.46	B B	C
ATOM	11596	Ŏ	LEU	723	71.586	39. 731	38. 310	1.00 10.40	В	0
ATOM	11597	Ň	VAL	724	71.858	41.849	37. 604	1.00 16.33	В	N N
ATOM	11598	CA	VAL	724	70. 429	42.079	37. 533	1.00 17.76	В	Č
ATOM	11599	CB	VAL	724	70.126	43. 526	37. 084	1.00 17.79	В	Č
ATOM	11600	CG1	VAL	724	68.660	43.678	36. 728	1.00 18.59	B	C C C
ATOM	11601	CG2		724	70.479	44. 487	38. 213	1.00 19.61	B	Č
ATOM	11602	C	VAL	724	69.844	41.079	36. 532	1.00 18.06	В	Ċ
ATOM	11603	0	VAL	724	68.824	40.441	36.800	1.00 16.03	В	0
ATOM	11604	N	ASP	725	70.509	40.920	35. 391	1.00 19.41	В	N
ATOM	11605	CA	ASP	725	70.015	39. 999	34. 379	1.00 21.58	В	C
ATOM	11606	CB	ASP	725	70. 965	39. 930	33. 191	1.00 23.71	В	C
ATOM	11607	CG	ASP	725	70. 957	41.197	32. 372	1.00 27.35	В	C
ATOM	11608	OD1	ASP	725 725	69. 919	41.895	32. 368	1.00 27.29	В	0
ATOM	11609	OD2		725	71. 983	41.486	31.717	1.00 31.72	В	0
ATOM	11610	C	ASP	725	69. 748	38. 591	34. 893	1.00 22.63	В	C

**SUBSTITUTE SHEET (RULE 26)** 

68. 763 37. 974 34. 474 1. 00 24. 48

70.607 38.075 35.781 1.00 20.53

ASP

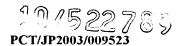
VAL

ATOM 11611 0

ATOM 11612 N

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					FIC	G. 4-	2 3 8			(Cor
ATOM	11613	CA	VAL	726	70. 409	36. 726	36.329	1.00 17.93	В	С
ATOM	11614	CB	VAL	726	71.727	35.920	36.392	1.00 19.28	В	C
ATOM	11615	CG1	VAL	726	72. 246	35.672	34.994	1.00 19.33	В	C
ATOM	11616	CG2	VAL	726	72. 763	36.660	37. 238	1.00 19.80	В	C
ATOM	11617	C	VAL	726	69. 789	36.741	37. 723	1.00 17.35	В	C
ATOM	11618	0	VAL	726	69. 858	35. 756	38.463	1.00 16.63	В	0
ATOM	11619	N	GLY	727	69. 198	37. 875	38. 081	1.00 17.14	В	N
ATOM	11620	CA	GLY	727	68. 548	38.012	39.370	1.00 15.42	В	C
ATOM	11621	C	GLY	727	69. 387	37.856	40.626	1.00 15.90	В	C
ATOM	11622	0	GLY	727	68. 961	37. 182	41.559	1.00 17.97	В	0
ATOM	11623	N	VAL	728	70. 568	38. 462	40.675	1.00 15.07	В	N
ATOM	11624	CA	VAL	728	71. 389	38. 357	41.876	1.00 14.10	В	C
ATOM	11625	CB	VAL	728	72. 859	37. 972	41.574	1.00 14.97	В	C
ATOM	11626	CG1	VAL	728	73. 693	38. 145	42. 829	1.00 13.51	В	C
ATOM	11627	CG2	VAL	728	72. 954	36. 514	41.109	1.00 15.40	В	C
ATOM	11628	C	VAL	728	71.396	39.687	42.603	1.00 14.73	В	C
ATOM	11629	0	VAL	728	71.738	40.714	42.025	1.00 14.56	В	0
ATOM	11630	N	ASP	729	71.007 70.998	39. 672 40. 896	43. 872 44. 646	1.00 15.13 1.00 15.32	B B	N
ATOM	11631	CA	ASP	729 729	70. 146	40. 890	45.903	1.00 15.32	В	C
ATOM	11632 11633	CB CG	ASP ASP	729 729	70. 140	42. 019	46.696	1.00 13.31	В	C
ATOM ATOM	11634	0D1	ASP	729	69. 663	43.055	46. 104	1.00 20.57	В	0
ATOM	11635		ASP	729	70. 317	43.033	47. 907	1.00 20.06	В	0
ATOM	11636	C	ASP	729	72. 441	41.185	45. 021	1.00 26.00	В	č
ATOM	11637	Õ	ASP	729	73. 253	40. 270	45. 117	1.00 10.21	В	ŏ
ATOM	11638	N	PHE	730	72. 772	42. 454	45. 211	1.00 16.74	В	N
ATOM	11639	CA	PHE	730	74. 136	42. 824	45. 579	1.00 16.43	В	C
ATOM	11640	CB	PHE	730	75.061	42. 734	44. 361	1.00 13.47	B	č
ATOM	11641	CG	PHE	730	74. 744	43. 728	43. 304	1.00 12.81	B	Č
ATOM	11642		PHE	730	75. 282	45.006	43. 355	1.00 12.64	B	Č
ATOM	11643		PHE	730	73. 828	43.423	42.303	1.00 12.46	В	C C
ATOM	11644		PHE	730	74. 907	45.966	42.432	1.00 11.61	В	Č
ATOM	11645		PHE	730	73.446	44.377	41.376	1.00 9.11	В	Č
ATOM	11646	CZ	PHE	730	73. 986	45.653	41.443	1.00 10.39	В	C
ATOM	11647	C	PHE	730	74.112	44. 242	46.114	1.00 17.87	В	C
ATOM	11648	0	PHE	730	73. 094	44.928	46.014	1.00 19.72	В	0
ATOM	11649	N	GLN	731	75. 230	44.673	46. 689	1.00 18.41	В	N
ATOM	11650	CA	GLN	731	75. 344	46.015	47.246	1.00 17.25	В	С
ATOM	11651	CB	GLN	731	76. 089	45. 961	48. 569	1.00 18.02	В	C
ATOM	11652	CG	GLN	731	75. 547	44. 948	49. 536	1.00 25.59	В	Ç
ATOM	11653	CD	GLN	731	74. 087	45. 183	49. 854	1.00 29.48	В	C
ATOM	11654	OE1	GLN	731	73. 699	46. 275	50. 281	1.00 31.32	В	0
ATOM	11655	NE2	GLN	731	73. 263	44. 157	49.647	1.00 32.13	В	N
ATOM	11656	C	GLN	731	76. 124	46. 889	46. 272	1.00 16.69	В	C
ATOM	11657	0	GLN	731	77.060	46. 417	45.623	1.00 13.71	В	0
ATOM	11658	N	ALA	732	75. 737	48. 158	46.172	1.00 15.59	В	N
ATOM	11659	CA	ALA	732	76. 425	49.084	45. 284	1.00 15.79	В	C
ATOM	11660	CB	ALA	732 732	75. 718 76. 540	49.147	43.946	1.00 15.47	В	C
ATOM	11661	С	ALA	104	76. 540	50. 486	45.867	1.00 17.21	В	C

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ATOM	11662	0	ALA	732	75. 769	50. 897	46. 734	1.00 17.93	В	0
ATOM	11663	N	MET	733	77. 528	51. 220	45. 382	1.00 17.27	В	Ň
ATOM	11664	CA	MET	733	77. 737	52. 587	45. 812	1.00 17.39	B	Ċ
ATOM	11665	CB	MET	733	78. 500	52. 628	47. 136	1.00 18.98	B	Č
ATOM	11666	CG	MET	733	78. 775	54. 028	47.661	1.00 18.20	B	Č
ATOM	11667	SD	MET	733	77. 278	54. 979	47. 988	1.00 21.42	B	Š
ATOM	11668	CE	MET	733	76. 781	54. 324	49.578	1.00 19.12	B	Ċ
ATOM	11669	C	MET	733	78. 539	53. 268	44.719	1.00 17.47	В	C
ATOM	11670	ŏ	MET	733	79. 604	52.783	44.318	1.00 17.30	В	0
ATOM	11671	Ň	TRP	734	78. 007	54.378	44.220	1.00 16.37	В	N
ATOM	11672	CA	TRP	734	78. 673	55. 147	43.175	1.00 15.48	В	C
ATOM	11673	CB	TRP	734	77.685	55.428	42.033	1.00 14.82	В	C
ATOM	11674	CG	TRP	734	76.691	56. 523	42.353	1.00 14.06	В	C
ATOM	11675	CD2		734	75. 299	56.363	42.650	1.00 12.49	В	С
ATOM	11676		TRP	734	74. 785	57.645	42.939	1.00 12.15	В	С
ATOM	11677		TRP	734	74. 437	55. 259	42.701	1.00 12.01	В	С
ATOM	11678		TRP	734	76.953	57.857	42.468	1.00 12.61	В	С
ATOM	11679	NE1	TRP	734	75.817	58. 535	42.821	1.00 13.60	В	N
ATOM	11680	CZ2	TRP	734	73.449	57.858	43.276	1.00 11.75	В	С
ATOM	11681	CZ3	TRP	734	73. 115	55.466	43.034	1.00 13.39	В	С
ATOM	11682	CH2	TRP	734	72.629	56.762	43.319	1.00 13.13	В	С
ATOM	11683	C	TRP	734	79. 111	56.457	43.831	1.00 13.60	В	С
ATOM	11684	0	TRP	734	78. 491	56.881	44.788	1.00 14.71	В	0
ATOM	11685	N	TYR	735	80. 174	57.090	43.346	1.00 13.31	В	N
ATOM	11686	CA	TYR	735	80. 598	58.366	43.926	1.00 12.17	В	С
ATOM	11687	CB	TYR	735	81.990	<b>58.</b> 260	44. 575	1.00 10.49	В	C
ATOM	11688	CG	TYR	735	81.964	57. 577	45.920	1.00 10.18	В	С
ATOM	11689		TYR	735	81.464	58. 232	47.045	1.00 11.23	В	C
ATOM	11690		TYR	735	81.321	57. 567	48. 272	1.00 11.72	В	C
ATOM	11691		TYR	735	82. 336	56. 241	46.052	1.00 11.30	В	C
ATOM	11692		TYR	735	82. 198	55. 567	47. 270	1.00 11.75	В	C
ATOM	11693	CZ	TYR	735	81.687	56. 235	48. 372	1.00 12.02	В	C
ATOM	11694	OH	TYR	735	81.511	55. 564	49. 563	1.00 13.79	В	0
ATOM	11695	C	TYR	735	80. 595	59. 430	42.845	1.00 14.20	В	C
ATOM	11696	0	TYR	735	81.391	59. 393	41.910	1.00 15.56	В	0
ATOM	11697	N	THR	736	79.669	60. 372	42.977	1.00 15.66	В	N
ATOM	11698	CA	THR	736	79. 517	61.459	42.026	1.00 14.01	В	C
ATOM	11699	CB	THR	736	78. 395	62. 401	42.469	1.00 13.01	В	C .
ATOM	11700	0G1	THR	736	77. 163	61.673	42. 534	1.00 13.00	В	0
ATOM	11701		THR	736	78. 256	63. 571	41.503	1.00 11.91	В	C
ATOM	11702	C	THR	736	80. 789	62. 278	41.882	1.00 16.80	В	C
ATOM	11703	0	THR	736	81.357	62. 730	42.875	1.00 19.71	В	0
ATOM	11704	N	ASP	737	81.230	62.457	40.640	1.00 16.82	B	N C
ATOM	11705	CA	ASP	737	82.407	63. 257	40. 322	1.00 15.22	B B	C
ATOM	11706	CB	ASP	737	82. 151	64. 728	40.684	1.00 15.24 1.00 17.61	в В	C C
ATOM	11707	CG	ASP	737	81.101	65.380	39. 785 38. 779	1.00 17.61	В	0
ATOM	11708		ASP ASP	737 737	80. 697 80. 680	64. 753 66. 525	40.078	1.00 10.39	В	0
ATOM ATOM	11709 11710	C	ASP	737	83. 737	62.811	40.078	1.00 15.17	В	Č
VION	11110	U	VOI	101	00.101	υμ. OII	TU. 314	1.00 10.11	ע	J

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ATOM	11711	0	ASP	737	84. 716	63.560	40.882	1.00	14.33	В	0	
ATOM	11712		GLU	738	83. 790	61.603	41.453		14.73	В	N	
ATOM	11713		GLU	738	85.054	61.112	41.986		14.51	В	C	
ATOM	11714		GLU	738	84. 829	60. 208	43. 206		15.23	В	C	
ATOM	11715		GLU	738	84. 353	60.935	44.448		16.91	В	C	
ATOM	11716		GLU	738	85. 355	61.958	44.956		19.02	В	С	
ATOM	11717		GLU	738	86. 513	61.580	45. 222		19.93	В	0	
ATOM	11718	0E2		738	84. 985	63.142	45: 100	1.00	19.97	В	0	
ATOM	11719		GLU	738	85.718	60.319	40.867		13.36	В	С	
ATOM	11720		GLU	738	85.037	59.763	40.005	1.00	13.24	В	0	
ATOM	11721		ASP	739	87.042	60.275	40.858	1.00	12.47	В	N	
ATOM	11722		ASP	739	87. 716	59. 522	39.824	1.00	12.05	В	C	
ATOM	11723	CB	ASP	739	88. 809	60.369	39. 166	1.00	12.46	В	C	
ATOM	11724	CG	ASP	739	89.952	60.717	40.101	1.00	16.27	В	C	
ATOM	11725	0D1	ASP	739	90. 706	61.653	39. 751	1.00	16.93	В	0	
ATOM	11726	OD2	ASP	739	90.116	60.066	41.158	1.00	16.75	В	0	
ATOM	11727	C	ASP	739	88. 248	58. 187	40. 351	1.00	13.65	В	C	
ATOM	11728	0	ASP	739	87. 781	57.686	41.372		14.63	В	0	
ATOM	11729		HIS	740	89. 217	57.609	39. 661		12.45	В	N	
ATOM	11730		HIS	740	89. 735	56.311	40. 041		12.91	В	С	
ATOM	11731		HIS	740	90. 795	55.872	39.035		12.28	В	C	
ATOM	11732		HIS	740	91.112	54.418	39. 105		12.12	В	C	
ATOM	11733	CD2		740	92. 292		39. 179		12.56	В	C	
ATOM	11734	ND1		740	90. 133	53.449	39. 081		12.00	В	N	
ATOM	11735	CE1		740	90. 697	52. 256	39. 136		11.97	В	C	
ATOM	11736	NE2		740	92.006	52.419	39. 194		12.98	В	N	
ATOM	11737		HIS	740	90. 298	56. 209	41.447		14.77	В	C	
ATOM	11738		HIS	740	90. 302	55.133	42.041		16.10	В	0	
ATOM	11739		GLY	741	90. 775	57. 320	41.986		14.45	В	N	
ATOM	11740		GLY	741	91.345	57. 271	43. 311		13. 32	В	C	
ATOM	11741		GLY	741	90. 381	57. 572	44. 431		14. 78	В	C	
ATOM	11742	0	GLY	741	90. 763	57. 445	45. 590		16.71	В	0	
ATOM	11743	N	ILE	742	89. 144		44. 103		14.08	В	N	
ATOM	11744	CA	ILE	742	88. 146	58. 298	45.111		14. 39	В	C	
ATOM	11745	CB	ILE	742	87. 309	57.082	45.520		14.12	В	C	
ATOM	11746	CG2		742	86. 121	57. 539	46.345		13. 12	В	C	
ATOM	11747	CG1		742	86. 830	56.336	44. 273		13.94	В	C	
ATOM ATOM	11748 11749	CD1 C	ILE	742	85. 833	55. 214 58. 827	44. 553		10.86	B B	C	
ATOM	11749	0	ILE ILE	742 742	88. 892 88. 706	58. 350	46. 335 47. 453		15.89 17.67	В	C 0	
ATOM	11751		ALA	743	89. 737	59. 828	46. 108		16.48	В	N	
ATOM	11752		ALA	743	90. 570		47. 157		15.34	В	C	
ATOM	11753		ALA	743	91. 985	60. 508	46.651		16.86	В	C	
ATOM	11754	CD	ALA	743	90. 149	61.689	47. 779		16.53	В	C	
ATOM	11755	Ö	ALA	743	90. 809	62. 153	48. 711		18.69	В	0	
ATOM	11756	N	SER	744	89. 088	62. 312	47. 287		14. 28	В	Ŋ	
ATOM	11757	CA	SER	744	88. 681	63. 556	47. 908		14.62	В	Č	
ATOM	11758	CB	SER	744	87. 369	64.059	47. 321		16.50	B	č	
ATOM	11759	0G	SER	744	86. 314	63. 152	47. 573		22.09	B	Ŏ	

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					FIG	. 4 -	2 4 1			, , ,
ATOM	11760	С	SER	744	88. 515	63. 251	49. 390	1.00 15.05	В	С
ATOM	11761	Ö	SER	744	88. 136	62. 147	49.770	1.00 17.03	B	Ö
ATOM	11762	N	SER	745	88. 822	64. 223	50. 229	1.00 16.05	B	Ň
ATOM	11763	ĊA	SER	745	88. 712	64.051	51.666	1.00 15.38	B	C
ATOM	11764	CB	SER	745	88. 811	65.410	52.361	1.00 15.23	В	C .
ATOM	11765	0G	SER	745	88. 357	65.318	53.698	1.00 20.36	В	0
ATOM	11766	C	SER	745	87. 427	63.360	52.103	1.00 14.58	В	C
ATOM	11767	0	SER	745	87. 467	62.334	52.773	1.00 15.64	В	0
ATOM	11768	N	THR	746	86. 287	63.925	51.728	1.00 13.39	В	N
ATOM	11769	CA	THR	746	85. 009	63. 355	52. 121	1.00 12.46	В	C
ATOM	11770	CB	THR	746	83. 836	64.299	51.755	1.00 13.02	В	C
ATOM	11771	0G1	THR	746	83. 858	64. 579	50. 347	1.00 12.13	В	0
ATOM	11772	CG2		746	83. 929	65. 599	52. 547	1.00 6.36	В	C
ATOM	11773	C	THR	746	84. 748	61.982	51. 513	1.00 13.71	В	C
ATOM	11774	0	THR	746	84. 382	61.045	52. 215	1.00 13.77	В	0
ATOM	11775	N	ALA	747	84. 948	61.852	50. 211	1.00 15.70	В	N
ATOM	11776	CA	ALA	747	84. 698	60. 575	49. 556	1.00 17.75	В	C
ATOM	11777	CB	ALA	747	84. 918	60.698	48. 047	1.00 18.85	В	C
ATOM	11778	C	ALA	747	85. 579 85. 136	59. 482 58. 344	50. 133 50. 314	1.00 16.94 1.00 17.92	B B	C 0
ATOM	11779 11780	O N	ALA HIS	747 748	86. 828	59. 829	50. 314	1.00 17.92	В	N N
ATOM ATOM	11781	CA	HIS	748	87. 772	58. 873	50. 413	1.00 15.53	В	C
ATOM	11782	CB	HIS	748	89. 130	59. 547	51. 194	1.00 14.50	В	Č
ATOM	11783	CG	HIS	748	90. 106	58. 721	51. 974	1.00 12.65	B	č
ATOM	11784		HIS	748	90. 772	58. 979	53. 124	1.00 12.46	B	č
ATOM	11785		HIS	748	90. 517	57. 472	51.566	1.00 11.91	B	Ň
ATOM	11786		HIS	748	91. 397	56.998	52. 430	1.00 12.20	B	Ċ
ATOM	11787		HIS	748	91.569	57.893	53.384	1.00 9.44	В	N
ATOM	11788	C	HIS	748	87. 259	58.310	52.316	1.00 15.00	В	С
ATOM	11789	0	HIS	748	87. 272	57.097	52.533	1.00 14.52	В	0
ATOM	11790	N	GLN	749	86.808	59.196	53.200	1.00 14.63	В	N
ATOM	11791	CA	GLN	749	86. 283	58.780	54.496	1.00 15.23	В	C
ATOM	11792	CB	GLN	749	86.045	59.999	55.378	1.00 15.87	В	C
ATOM	11793	CG	GLN	749	87. 314	60.722	55. 740	1.00 22.62	В	C
ATOM	11794	CD	GLN	749	87. 056	61.956	56. 564	1.00 25.83	В	C
ATOM	11795	OE1		749	86. 511	61.873	57.664	1.00 29.51	В	0
ATOM	11796		GLN	749	87. 443	63.116	56.039	1.00 27.64	В	N
ATOM	11797	C	GLN	749	84. 984	57. 999	54.348	1.00 14.70	В	C
ATOM ATOM	11798	O N	GLN HIS	749 750	84. 749	57. 015 58. 440	55.054	1.00 14.10 1.00 13.44	В	0 N
ATOM	11799 11800	CA	HIS	750 750	84. 147 82. 865	57. 808	53. 415 53. 174	1.00 13.44	B B	N C
ATOM	11801	CB	HIS	750	82. 021	58. 685	52. 247	1.00 12.03	В	C
ATOM	11802	CG	HIS	750	80. 587	58. 272	52. 176	1.00 13.33	В	C
ATOM	11803		HIS	750	79. 475	58. 823	52. 713	1.00 12.41	В	C C C
ATOM	11804		HIS	750	80. 175	57. 128	51.530	1.00 12.98	B	Ň
ATOM	11805		HIS	750	78. 869	56. 992	51.673	1.00 14.44	B	Ċ
ATOM	11806		HIS	750	78. 419	58. 007	52. 386	1.00 13.43	B	Ň
ATOM	11807	C	HIS	750	82. 985	56.404	52. 595	1.00 13.84	B	Ċ
ATOM	11808	0	HIS	750	82. 265	55.499	53.011	1.00 14.53	В	0

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(Continued) FIG. 4-242 83.885 56.203 51.638 1.00 13.03 N ATOM 11809 N ILE 751 В ILE 751 84.013 54.875 51.077 1.00 12.47 В C **ATOM** 11810 CA 54.838 C ILE 84.927 49.814 1.00 13.01 В 751 **ATOM** 11811 CB C 11812 CG2 ILE 751 86.326 55.361 50.137 1.00 12.55 В **ATOM** 53.395 C **ATOM** 11813 CG1 ILE 751 84.999 49.287 1.00 12.09 В 85.677 53.240 47.939 1.00 11.16 C CD1 ILE В **ATOM** 11814 751 84.546 53.893 52.111 1.00 12.65 C C ILE 751 В **ATOM** 11815 84.025 1.00 12.49 **ATOM** 11816 0 ILE 751 52.790 52.241 В 0 52.858 11817 N **TYR** 752 85.575 54.284 1.00 13.74 В **ATOM** N 86.137 53.364 53.850 1.00 14.04 В C 11818 **TYR** 752 **ATOM** CA **TYR** 752 87.486 53.883 54.379 1.00 11.26 В C **ATOM** 11819 CB C ATOM 11820 CG **TYR** 752 88.628 53.468 53.472 1.00 9.86 В **ATOM** CD1 TYR 89.037 52.132 53.408 1.00 10.53 C 11821 752 В C 11822 CE1 TYR 752 90.015 51.712 52.502 1.00 9,48 **ATOM** B 89.235 9.66 C **ATOM** CD2 TYR 752 54.383 52.608 11823 1.00 В 11824 CE2 TYR 752 90.219 53.974 51.692 1.00 8.36 В C **ATOM ATOM** 11825 CZ**TYR** 752 90.597 52.639 51.646 1.00 9.94 В C 11826 91.536 52.223 OH **TYR** 752 50.739 **ATOM** 1.00 10.79 B 0 **ATOM** 11827 C **TYR** 752 85.170 53.067 54.973 1.00 13.42 В C 11828 85.176 51.972 **ATOM** 0 **TYR** 752 55.524 1.00 13.56 B 0 **ATOM** 11829 N THR 753 84.323 54.040 55.295 1.00 14.48 В N 11830 CA 753 83.316 53.864 **ATOM** THR 56.330 1.00 14.27 В C **ATOM** 11831 CB THR 753 82.582 55.187 56.618 1.00 13.68 В C **ATOM** 11832 OG1 THR 753 83.519 56.136 57.130 1.00 17.48 B 0 **ATOM** 11833 CG2 THR 753 81.459 54.987 57.629 1.00 7. 20 В C **ATOM** 11834 C 82.301 52.849 55.815 THR 753 1.00 16.15 B C 11835 ATOM 0 THR 753 81.958 51.894 56.508 1.00 18.93 B 0 **ATOM** 11836 N HIS 754 81.830 53.056 54.589 1.00 15.38 В N HIS ATOM 11837 CA 754 80.840 52.163 53.999 1.00 16.06 В C **ATOM** 11838 HIS 754 80.424 52.666 52.620 1.00 15.26 CB В C ATOM 11839 CG HIS 754 79.109 52.128 52.162 1.00 16.39 В C CD2 HIS 51.095 **ATOM** 11840 78.779 51.362 754 1.00 15.75 B C **ATOM** 11841 ND1 HIS 77.936 52.353 52.850 754 1.00 17.30 B N CE1 HIS **ATOM** 11842 754 76.940 51.750 52.228 1.00 15.86 В C **ATOM** 11843 NE2 HIS 754 77.425 51.141 51.161 1.00 17.13 В N ATOM 11844 HIS 81.349 50.731 754 53.886 1.00 16.28 C В C ATOM 80.639 11845 0 HIS 49.788 1.00 17.31 754 54.238 B 0 **ATOM** 11846 N MET 755 82.571 50.564 53.383 1.00 15.98 В N **ATOM** 11847 83.158 49.234 53.250 CA MET 755 1.00 16.05 B C 49.300 **ATOM** 84.532 11848 CB **MET** 755 52.573 1.00 15.41 В C **ATOM** 11849 755 84.491 49.542 CG **MET** 51.081 1.00 17.11 B C **ATOM** 11850 MET 755 86.112 49.308 50.322 1.00 18.41 SD В S **ATOM** 86.882 11851 CE MET 755 50.855 50.742 1.00 20.74 C В **ATOM** 11852 C **MET** 755 83.309 48.582 54.623 1.00 15.38 В C **ATOM** 11853 83.080 1.00 13.30 0 MET 755 47.390 54.783 В 0 **ATOM** 11854 N SER 756 83.701 49.371 55.614 1.00 15.36 В N **ATOM** 11855 **SER** 756 83.854 48.833 1.00 18.52 CA 56.946 В C 756 **ATOM** 11856 SER 84.413 C CB 49.903 57.878 1.00 18.88 В

SUBSTITUTE SHEET (RULE 26)

50.257

57.477

1.00 18.74

85.723

756

SER

0G

**ATOM** 

11857



(Continued) FIG. 4-243 82.515 48.282 57.462 1.00 19.14 C 11858 C SER 756 В ATOM 756 82.464 47.158 57.975 1.00 19.94 В 0 ATOM 11859 SER 0 57.324 1.00 17.68 757 81.435 49.048 N **ATOM** В 11860 N HIS 57.770 1.00 19.20 757 80.134 48.549 В C ATOM 11861 CA HIS C ATOM 11862 HIS 757 78.990 49.486 57.371 1.00 18.83 В CB 78.983 50.794 58.095 1.00 21.13 В C **ATOM** 11863 CG HIS 757 78.697 1.00 22.10 C 757 52.046 57.666 B 11864 CD2 HIS ATOM 50.899 79.230 59.447 1.00 22.62 ATOM 11865 ND1 HIS 757 B N 79.096 52.159 59.820 1.00 23.60 **ATOM** 11866 CE1 HIS 757 B C 58.758 1.00 24.81 757 78.772 52.876 В N ATOM 11867 NE2 HIS ATOM HIS 757 79.866 47.190 57.120 1.00 17.94 В C 11868 C 57.772 79.416 1.00 16.58 **ATOM** 11869 0 HIS 757 46.251 В 0 80.158 47.103 55.828 1.00 17.93 В ATOM 11870 N PHE 758 N 79.926 1.00 18.80 ATOM 11871 PHE 758 45.888 55.052 В C CA ATOM 80.286 46.138 53.586 1.00 15.70 C 11872 PHE 758 CB В ATOM 11873 PHE 758 79.952 44.997 52.677 1.00 10.77 B C CG 78.646 44.790 52.251 C **ATOM** 11874 CD1 PHE 758 1.00 8.39 В 44.120 6.53 11875 CD2 PHE 758 80.941 52.254 1.00 C ATOM В 78.334 43.716 51.409 9.32 ATOM 11876 CE1 PHE 758 1.00 В C 11877 CE2 PHE 80.638 43.04551.417 1.00 C ATOM 758 6.01 B **ATOM** 11878 CZ PHE 758 79.340 42.836 50.991 1.00 2.78 B C 11879 758 80.697 44.674 55.560 1.00 20.68 **ATOM** C PHE В C **ATOM** 11880 0 PHE 758 80.110 43.631 55.851 1.00 21.00 В 0 44.811 ATOM 11881 ILE 759 82.014 55.654 1.00 23.57 N B N **ATOM** 11882 CA ILE 759 82.858 43.722 56.117 1.00 25.05 В C 11883 84.364 **ATOM** CB ILE 759 44.129 56.069 1.00 25.44 B C 84.994 **ATOM** 11884 CG2 ILE 759 44.041 57.437 1.00 28.98 B C 759 **ATOM** 11885 CG1 ILE 85.128 43.189 55.142 1.00 26.52 B C ATOM 11886 CD1 ILE 759 84.706 43. 263 53.704 1.00 26.84 В C ATOM 11887 ILE 759 82.441 43.318 57.529 1.00 25.34 C В C ATOM 11888 ILE 759 82.420 42.136 57.866 1.00 25.50 0 В 0 82.081 44.299 **ATOM** 11889 N LYS 760 58.346 1.00 26.11 В N 11890 81.671 **ATOM** CA LYS 760 44.012 59.713 1.00 26.62 В C **ATOM** 11891 CB LYS 760 81.444 45.300 60.487 1.00 26.43 В C 11892 LYS 760 82.178 45.298 61.792 ATOM CG 1.00 29.00 В C 11893 LYS 760 83.666 45.271 61.537 **ATOM** CD 1.00 28.96 C В 1.00 30.01 ATOM 11894 CE LYS 84.139 46.665 61.250 760 В C ATOM 11895 NZ LYS 760 83.776 47.523 62.420 1.00 31.29 В N **ATOM** 11896 LYS 760 80.406 43.179 59.740 1.00 27.08 C B C 80.312 42.200 1.00 28.46 ATOM 11897 LYS 760 60.473 0 B 0 58.940 ATOM 11898 N GLN 761 79.431 43.581 1.00 28.08 B N **ATOM** 11899 **GLN** 761 78.170 42.866 58.844 1.00 29.69 CA В C ATOM 77.213 43.65257.942 1.00 31.26 11900 CB GLN 761 В C ATOM 11901 CG 761 76.072 42.855 57.347 1.00 34.99 **GLN** B C 76.477 56.072 **MOTA** 11902 CD **GLN** 761 42.140 1.00 37.85 В C MOTA 11903 OE1 GLN 761 76.800 42.775 55.062 1.00 37.29 В 0 11904 76.464 56.112 ATOM NE2 GLN 761 40.808 1.00 39.80 В N 761 78.401 **ATOM** 11905 C GLN 41.456 58. 295 1.00 30.00 В C **GLN** 761 77.791 11906 0 40.494 58.753 1.00 31.14 R 0 ATOM



C

E

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(Continued) FIG. 4-244 57.320 1.00 29.71 В N 41.333 762 79.291 CYS **ATOM** 11907 N C 56.731 1.00 30.30 В 762 79.588 40.035 11908 CA CYS **ATOM** C 1.00 30.21 B 80.275 39.077 57.712 CYS 762 11909 **ATOM** 1.00 29.67 В 0 80.153 37.860 57.578 CYS 762 11910 0 **ATOM** C 55.474 1.00 30.01 В 40.212 80.458 762 **ATOM** 11911 CB CYS S 1.00 33.72 54.849 В 38.665 11912 SG CYS 762 81.198 **ATOM** 1.00 30.53 В N PHE 763 80.986 39.618 58.698 11913 **ATOM** 38.783 59.664 1.00 31.28 В C 81.694 763 PHE 11914 CA ATOM C 1.00 29.29 59.885 В 83.112 39.310 11915 PHE 763 **ATOM** CB C В 58.736 1.00 27.21 PHE 763 84.052 39.057 11916 CG **ATOM** C 83.663 38.280 57.650 1.00 26.19 В CD1 PHE 763 11917 **ATOM** C 58.762 1.00 26.38 B 39.572 85.348 CD2 PHE 763 **ATOM** 11918 C B 56.605 1.00 27.91 84.552 38.015 11919 CE1 PHE 763 ATOM C 86.249 57.727 1.00 27.36 В 39.316 11920 CE2 PHE 763 ATOM 1.00 27.55 C 85.851 56.643 В 38.533 PHE 763 **ATOM** 11921 CZC 61.011 1.00 34.52 В 763 80.994 38.666 11922 PHE **ATOM** 61.908 1.00 32.78 В 0 81.473 PHE 763 37.970 11923 ATOM 0 1.00 39.49 79.862 39.346 61.151 В N 764 **ATOM** 11924 N SER В C 39.319 62.393 1.00 43.60 11925 SER 764 79.099 CA **ATOM** 1.00 44.56 77.860 40.199 62.273 B C 764 11926 CB **SER ATOM** 1.00 50.05 78.218 41.528 61.948 В 0 764 11927 SER **ATOM** 0G C 37.909 62.746 1.00 45.96 B 11928 764 78.668 SER **ATOM** 77.885 37.289 62.028 1.00 45.86 В 0 11929 0 SER 764 **ATOM** 63.856 1.00 49.22 79.189 37.404 B N 11930 N LEU 765 **ATOM** 64.317 1.00 52.03 В C 11931 LEU 765 78.845 36.070 CA **ATOM** 79.754 65.481 1.00 52.53 В C 35.678 11932 CB LEU 765 **ATOM** C 1.00 52.85 81.234 35.558 65.115 В 765 **ATOM** 11933 CG LEU C 66.376 1.00 53.55 В **ATOM** 11934 CD1 LEU 765 82.074 35.452 81.435 34.344 64.214 1.00 52.54 В C 11935 CD2 LEU 765 **ATOM** 1.00 54.34 C 77.383 36.069 64.761 В 11936 LEU 765 **ATOM** C 1.00 53.63 В 0 77.019 36.721 65.743 **ATOM** 11937 0 LEU 765 1.00 56.38 11938 **PRO** 766 76.523 35.340 64.031 В N **ATOM** N 76.833 34.541 62.831 1.00 56.67 В C PRO 766 11939 CD **ATOM** C 75.095 1.00 57.95 В 35.263 64.356 11940 PR<sub>0</sub> 766 **ATOM** CA 74.509 1.00 58.24 C 34.544 63.141 В **ATOM** 11941 CB **PRO** 766 1.00 57.40 C 75.626 33.633 62.728 B ATOM 11942 CG **PRO** 766 74.805 65.664 1.00 59.30 В C 34.523 11943 C **PRO** 766 **ATOM** 1.00 60.29 73.791 33.789 65.711 В 0 766 **ATOM** 11944 0 P<sub>R</sub>0 75.584 1.00 59.84 B ATOM 11945 OXT PRO 766 34.704 66.627 B 766 TER 11946 PR<sub>0</sub> 901 25.105 38.477 14.927 1.00 45.03 E C 11947 C1 NAG **ATOM** 13.922 1.00 45.16 26.266 38.501 E C C2**ATOM** 11948 NAG 901 14.595 1.00 44.20 E N2 901 27.447 39.002 N **ATOM** 11949 NAG 28.662 38.702 14.153 1.00 43.63 E C **ATOM C7** 901 11950 NAG 1.00 44.60 13.997 NAG 901 29.050 37.546 E 0 **ATOM** 11951 07 13.838 1.00 43.83 E C 29.588 39.864 ATOM 11952 **C8** NAG 901 NAG 901 25.942 39.385 12.713 1.00 46.38 E C **ATOM** 11953 39.235 11.728 1.00 49.49 0 26.953 E **ATOM** NAG 901 11954 03

38.987 SUBSTITUTE SHEET (RULE 26)

24.591

NAG

C4

**ATOM** 

11955

901

12.124

1.00 47.76

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						(Continued)
					FIG. 4-245	(001101110100)
·A TOM	11956	04	NAG	901	24. 256 39. 836 11. 036 1. 00 49. 01 E	0
ATOM ATOM	11957	C5	NAG	901	23. 545 39. 104 13. 219 1. 00 49. 11 E	č
	11957	05	NAG	901	23. 858 38. 173 14. 276 1. 00 47. 99 E	Ö
ATOM ATOM	11959	C6	NAG	901	22. 143 38. 804 12. 731 1. 00 50. 99 E	Č
ATOM	11960	06	NAG	901	21. 706 39. 781 11. 793 1. 00 53. 28 E	Ö
ATOM	11961	C1	NAG	902	34. 526 67. 450 4. 248 1. 00 29. 71 E	Č
ATOM	11961	C2	NAG	902	33. 682 66. 990 3. 051 1. 00 31. 02 E	Č
ATOM	11962	N2	NAG	902	34. 077 65. 638 2. 692 1. 00 35. 02 E	N N
	11964	C7	NAG	902	33. 181 64. 660 2. 610 1. 00 35. 78 E	C
ATOM	11965		NAG	902	32. 213 64. 701 1. 852 1. 00 37. 59 E	0
ATOM		07 C8		902	33. 392 63. 449 3. 503 1. 00 37. 18 E	Č
ATOM	11966		NAG	902	33. 927 67. 915 1. 848 1. 00 31. 67 E	C
ATOM	11967	C3	NAG	902	33. 032 67. 583 0. 794 1. 00 34. 76 E	0
ATOM	11968	03	NAG			C
ATOM	11969	C4	NAG	902		0
ATOM	11970	04 CE	NAG	902		C
ATOM	11971	C5	NAG	902		
ATOM	11972	05 C6	NAG	902		0
ATOM	11973	C6	NAG	902		C
ATOM	11974	06	NAG	902	33. 457 71. 512 4. 409 1. 00 34. 26 E	0
ATOM	11975	C1	NAG	903	64. 239 77. 734 14. 341 1. 00 27. 20 E	C
ATOM	11976	C2	NAG	903	63. 984 78. 203 12. 917 1. 00 26. 96 E	C
ATOM	11977	N2	NAG	903	63. 551 77. 080 12. 116 1. 00 25. 19 E	N
ATOM	11978	C7	NAG	903	62. 349 77. 076 11. 551 1. 00 24. 99 E	C
ATOM	11979	07	NAG	903	62. 121 76. 492 10. 490 1. 00 25. 88 E	0
ATOM	11980	C8	NAG	903	61. 222 77. 800 12. 272 1. 00 23. 55 E	C
ATOM	11981	C3	NAG	903	65. 253 78. 817 12. 325 1. 00 29. 00 E	C
ATOM	11982	03	NAG	903	64. 947 79. 400 11. 066 1. 00 29. 62 E	0
ATOM	11983	C4	NAG	903	65. 814 79. 900 13. 248 1. 00 30. 83 E	C
ATOM	11984	04	NAG	903	67. 092 80. 316 12. 778 1. 00 31. 15 E	0
ATOM	11985	C5	NAG	903	65. 929 79. 389 14. 690 1. 00 30. 71 E	C
ATOM	11986	05	NAG	903	64. 669 78. 842 15. 133 1. 00 30. 11 E	0
ATOM	11987	C6	NAG	903	66. 276 80. 502 15. 659 1. 00 32. 26 E	C
ATOM	11988	06	NAG	903	65. 937 80. 144 16. 993 1. 00 35. 52 E	0
ATOM	11989	C1	NAG	904	56. 857 73. 229 -0. 933 1. 00 21. 65 E	Ċ
ATOM	11990	C2	NAG	904	58. 289 73. 099 -1. 475 1. 00 21. 59 E	C
ATOM	11991	N2	NAG	904	58. 532 71. 758 -1. 961 1. 00 21. 40 E	Ŋ
ATOM	11992	C7	NAG	904	58. 567 71. 523 -3. 267 1. 00 20. 76 E	C
ATOM	11993	07	NAG	904	58. 745 72. 412 -4. 104 1. 00 18. 55 E	0
ATOM	11994	C8	NAG	904	58. 371 70. 080 -3. 709 1. 00 20. 74 E	C
ATOM	11995	C3	NAG	904		C
ATOM	11996	03	NAG	904	60. 611 73. 413 -1. 009 1. 00 22. 81 E	0
ATOM	11997	C4	NAG	904	59. 022 74. 832 0. 129 1. 00 22. 85 E	C
ATOM	11998	04	NAG	904	59. 986 75. 217 1. 101 1. 00 24. 62 E	0
ATOM	11999	C5	NAG	904	57. 634 74. 781 0. 737 1. 00 22. 86 E	C
ATOM	12000	05	NAG	904	56.672 74.506 -0.297 1.00 21.95 E	0
ATOM	12001	C6	NAG	904	57. 232 76. 083 1. 385 1. 00 24. 39 E	С
ATOM	12002	06	NAG	904	57. 196 77. 133 0. 430 1. 00 31. 81 E	0
ATOM	12003	C1	NAG	905	49.743 85.075 37.084 1.00 31.93 E	С
ATOM	12004	C2	NAG	905	49. 010 86. 230 37. 756 1. 00 33. 35 E	С

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					FΙ	G. 4-	246			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12005 12006 12007 12008 12009 12010 12011 12012 12013 12014 12015 12016 12017 12018 12019 12020 12021 12021	N2 C7 O7 C8 C3 O3 C4 O4 C5 O6 C1 C2 N2 C7 O7 C8	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG	905 905 905 905 905 905 905 905 906 906 906 906	47. 823 46. 648 46. 362 45. 640 49. 951 49. 256 51. 043 51. 794 50. 878 52. 787 52. 150 128. 439 127. 977 126. 880 125. 666 125. 264 124. 760	86. 586 86. 099 85. 888 85. 786 87. 416 88. 512 86. 945 88. 009 85. 773 84. 684 85. 212 84. 936 74. 792 75. 856 75. 335 75. 871 76. 427 75. 782	2 4 6  37. 012 37. 395 38. 578 36. 303 37. 924 38. 495 38. 863 39. 193 38. 215 37. 887 39. 214 40. 459 56. 371 55. 375 54. 586 54. 690 55. 714 53. 471	1.00 34.30 1.00 35.18 1.00 36.47 1.00 37.15 1.00 33.45 1.00 35.37 1.00 35.45 1.00 34.39 1.00 32.56 1.00 36.29 1.00 36.29 1.00 37.17 1.00 38.41 1.00 38.52 1.00 36.25	EEEEEEEEEEEEEEE	(Continued)  N C O C C O C O C O C O C O C O C O C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12023 12024 12025 12026 12027 12028 12029 12030 12031 12032 12033 12034 12035 12036 12037 12038	C3 O3 C4 O4 C5 O5 C6 O6 C1 C2 N2 C7 O7 C8 C3 O3	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG	906 906 906 906 906 906 907 907 907 907 907 907	129. 133 128. 723 130. 331 131. 439 130. 699 129. 556 131. 811 131. 906 126. 770 127. 763 127. 401 128. 139 128. 715 128. 278 127. 776 128. 692	76. 265 77. 334 76. 704 76. 975 75. 602 75. 268 76. 032 75. 162 72. 294 73. 454 74. 367 74. 400 73. 403 75. 739 74. 167 75. 253	54. 465 53. 625 55. 308 54. 460 56. 312 57. 133 57. 255 58. 378 25. 405 25. 478 26. 540 27. 644 28. 094 28. 352 24. 126 24. 154	1. 00 38. 66 1. 00 39. 59 1. 00 39. 58 1. 00 41. 48 1. 00 40. 24 1. 00 38. 27 1. 00 41. 89 1. 00 46. 70 1. 00 35. 73 1. 00 37. 97 1. 00 41. 34 1. 00 42. 96 1. 00 42. 60 1. 00 36. 63 1. 00 38. 28	EEEEEEEEEEEEE	C O C O C C C N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12039 12040 12041 12042 12043 12044 12045 12046 12047 12048 12049 12050 12051 12052 12053	C4 O4 C5 O5 C6 O6 C1 C2 N2 C7 O7 C8 C3 O3 C4	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG	907 907 907 907 907 908 908 908 908 908 908 908	128. 171 128. 191 127. 161 127. 166 127. 444 128. 515 97. 567 98. 226 98. 466 99. 645 100. 703 99. 655 97. 328 98. 013 96. 945	73. 148 73. 758 71. 995 71. 377 70. 913 70. 083 64. 129 65. 101 66. 365 66. 962 66. 434 68. 349 65. 325 66. 122 63. 975	23. 047 21. 763 23. 075 24. 380 22. 057 22. 478 12. 586 11. 602 12. 269 12. 148 12. 500 11. 529 10. 380 9. 426 9. 760	1. 00 35. 89 1. 00 35. 82 1. 00 35. 12 1. 00 32. 61 1. 00 36. 17 1. 00 38. 44 1. 00 33. 83 1. 00 40. 33 1. 00 43. 03 1. 00 45. 77 1. 00 43. 86 1. 00 37. 11 1. 00 36. 97	EEEEEEEEEEEE	C O C O C C C N C C C C

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					FIG	ì. 4-	247			(Continued)
ATOM	12054	04	NAG	908	96.049	64. 165	8.668	1.00 36.08	Е	0
ATOM	12055	C5	NAG	908	96. 291	63. 106	10.841	1.00 35.43	Ë	č
ATOM	12056	05	NAG	908	97. 215	62.906	11. 930	1.00 33.34	Ē	Ö
ATOM	12057	C6	NAG	908	95. 890	61.735	10. 341	1.00 36.72	Ē	č
ATOM	12058	06	NAG	908	95.085	61.057	11. 296	1.00 38.75	Ē	Ö
ATOM	12059	C1	NAG	909	106.501	80.407	11. 987	1.00 55.21	Ë	Č
ATOM	12060	C2	NAG	909	105.627	81. 255	11.048	1.00 55.75	Ē	Č
ATOM	12061	N2	NAG	909	105.631	82.658	11.427	1.00 55.80	Ē	Ň
ATOM	12062	<b>C7</b>	NAG	909	106.748	83. 259	11.828	1.00 56.83	Ē	C
ATOM	12063	07	NAG	909	107.685	83.526	11.066	1.00 55.16	Ē	0
ATOM	12064	C8	NAG	909	106.838	83.620	13.305	1.00 56.25	E	
ATOM	12065	C3	NAG	909	104. 195	80.724	11.087	1.00 56.36	Е	C C
ATOM	12066	03	NAG	909	103. 396	81.452	10.166	1.00 58.58	Е	0
ATOM	12067	C4	NAG	909	104. 176	79. 229	10.744	1.00 56.19	Е	C
ATOM	12068	04	NAG	909	102.855	78.716	10.862	1.00 55.29	Е	0
ATOM	12069	C5	NAG	909	105. 117	78.478	11.692	1.00 56.24	Е	С
ATOM	12070	05	NAG	909	106. 446	79.028	11.600	1.00 56.65	Е	0
ATOM	12071	C6	NAG	909	105. 230	76.996	11.381	1.00 57.38	E	C
ATOM	12072	06	NAG	909	106. 370	76. 423	12.010	1.00 55.01	E	0
ATOM	12073	C1	NAG	910	105. 213	38. 428	20.006	1.00 34.33	E	С
ATOM	12074	C2	NAG	910	106. 113	37. 293	19.498	1.00 37.27	E	C
ATOM	12075	N2	NAG	910	107. 447	37. 789	19. 211	1.00 40.05	E	N
ATOM	12076	C7	NAG	910	108. 495	36. 984	19.368	1.00 42.24	E	C
ATOM	12077	07	NAG	910	109.013	36. 771	20. 465	1.00 42.65	E	0 .
ATOM	12078	C8	NAG	910	109. 047	36. 295	18. 126	1.00 42.65	E	C
ATOM	12079	C3	NAG	910	105. 504	36.650	18. 245	1.00 37.60	E	C
ATOM	12080	03	NAG	910	106. 296	35. 547	17. 831	1.00 38.44	E	0
ATOM	12081	C4	NAG	910	104. 084	36. 182	18. 551	1.00 36.63	E	C
ATOM	12082	04	NAG	910	103.489	35.616	17. 388	1.00 37.52	E	0
ATOM	12083	C5	NAG	910	103. 274	37. 387	19.037	1.00 35.81	E	C
ATOM ATOM	12084	05	NAG	910	103.883	37. 930	20. 229	1.00 34.96	E	0
	12085 12086	C6	NAG	910	101.838	37. 042	19.385	1.00 34.79	E	C
ATOM TER	12087	06	NAG NAG	910 910	101.781	36. 089	20. 437	1.00 34.77	E	0
ATOM	12088	0	HOH	-	53. 435	80. 704	18. 172	1.00 10.60	E W	٥
ATOM	12089	0	НОН	$\frac{1}{2}$	57. 473	78. 703	26. 320	1.00 10.00	W	0 0
ATOM	12000	ő	НОН	3	65. 386	56. 077	37. 040	1.00 21.03	W	0
ATOM	12091	ŏ	НОН	4	56. 235	76. 520	22. 816	1.00 14.76	w	0
ATOM	12092	ŏ	НОН	5	58. 127	60. 758	28. 066	1.00 4.70	Ÿ	0
ATOM	12093	ŏ	НОН	6	40. 099	59. 877	48. 410	1.00 16.00	Ÿ	0
ATOM	12094	ŏ	НОН	7	29. 796	47. 323	37. 410	1.00 24.76	Ÿ	Ö
ATOM	12095	Ö	НОН	8	38. 634	67. 195	51.371	1.00 22.65	Ÿ	ŏ
ATOM	12096	Ŏ	НОН	9	41.732	52. 103	37. 673	1.00 13.34	W	Ö
ATOM	12097	Ö	НОН	10	79. 275	54. 159	21.409	1.00 15.53	Ÿ	0
ATOM	12098	0	НОН	11	65. 287	66.160	35. 128	1.00 7.29	Ÿ	Ö
ATOM	12099	0	HOH	12		49.364	26.780	1.00 14.00	Ÿ	Ŏ
ATOM	12100	0	HOH	13	67. 989	56.792	26.833	1.00 20.21	W	0
ATOM	12101	0	HOH	14		70.138	19.815	1.00 12.98	W	0
ATOM	12102	0	НОН	15	59. 193	63. 441	21. 787	1.00 5.68	W	0

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					FIC	4	0.40			(Continued)
					riG	. 4 -	2 4 8			
ATOM	12103	0	НОН	16		66.700	47.886	1.00 13.21	W	0
ATOM	12104	0	НОН	17		53.043	50. 567	1.00 20.65	W	0
ATOM	12105	0	HOH	18		69. 817	52. 424	1.00 34.74	W	0
ATOM	12106	0	HOH	19		69.650	29. 378	1.00 25.18	W	0
ATOM	12107	0	HOH	20	50.912	61.115	48. 431	1.00 18.77	W	0
ATOM	12108	0	НОН НОН	21 22		85. 282 63. 930	28. 107	1.00 27.06 1.00 29.16	W	0
ATOM ATOM	12109 12110	0	ноп НОН	23		87. 394	21.686 23.730	1.00 29.16	W W	0 0
ATOM	12111	0	НОН	23 24		67. 109	30. 405	1.00 21.66	W	0
ATOM	12112	ŏ	НОН	25		80. 303	31. 025	1.00 34.33	W	0
ATOM	12113	ŏ	НОН	26		66.634	22. 568	1.00 10.18	Ÿ	Ŏ
ATOM	12114	Ŏ	НОН	$\overline{27}$		54. 838	52. 427	1.00 29.90	Ÿ	ŏ
ATOM	12115	0	HOH	28		80.961	23. 145	1.00 17.51	W	Ō
ATOM	12116	0	HOH	29	73.677	71.484	27.824	1.00 34.92	W	0
ATOM	12117	0	НОН	30		57.060	34. 794	1.00 28.05	W	0
ATOM	12118	0	HOH	31		72.092	24. 987	1.00 14.46	W	0
ATOM	12119	0	НОН	32		84. 543	25. 502	1.00 22.75	W	0
ATOM	12120	0	HOH	33		63. 840	46. 551	1.00 12.55	W	0
ATOM	12121	0	НОН	34		47. 441	47. 587	1.00 25.33	W	0
ATOM ATOM	12122 12123	0	НОН НОН	35 36		56. 510 59. 222	44. 904	1.00 30.51	₩	0
ATOM	12123	0	НОН	30 37		64. 199	42. 224 47. 510	1.00 13.22 1.00 21.69	W W	0
ATOM	12125	0	НОН	38		70. 385	33. 904	1.00 24.19	W	0
ATOM	12126	Ö	НОН	39		47. 056	34. 998	1.00 24.19	w	0
ATOM	12127	Ō	НОН	40		49. 571	32.910	1.00 22.85	W	ŏ
ATOM	12128	0	HOH	41		53.516	39. 573	1.00 12.47	w	Ŏ
ATOM	12129	0	HOH	42		48. 248	21.021	1.00 24.35	Ŵ	Ö
ATOM	12130	0	HOH	43		53. 457	19. 457	1.00 32.23	W	0
ATOM	12131	0	НОН	44		61.003	21. 232	1.00 19.07	W	0
ATOM	12132	0.	HOH	45		50. 325	19.619	1.00 36.05	W	0
ATOM	12133	0	HOH	46		58. 001	59.062	1.00 20.53	W	0
ATOM ATOM	12134 12135	0	НОН	47 48		54. 978	15. 598	1.00 20.74	W	0
ATOM	12136	0	НОН НОН	40 49		51.103 66.281	23. 882	1.00 16.65	W	0
ATOM	12137	0	HOH	50		72. 589	21.097 -9.525	1.00 18.82 1.00 19.51	W	0
ATOM	12138	ő	HOH	51		47. 337	39. 374	1.00 15.31	W	0 0
ATOM	12139	ŏ	НОН	52		68. 673	61. 331	1.00 10.43	Ÿ	0
ATOM	12140	Ŏ	НОН	53		48. 947	47. 621	1.00 17.49	Ÿ	Ö
ATOM	12141	0	HOH	54		82.021	10.956	1.00 24.56	Ÿ	Ŏ
ATOM	12142	0	HOH	55		45. 427	40.043	1.00 35.52	W	0
ATOM	12143	0	HOH	56		60. 491	43. 209	1.00 10.79	W	0
ATOM	12144	0	НОН	57		62. 843	34. 752	1.00 17.19	W	0
ATOM	12145	0	HOH	58		55.643	2. 123	1.00 19.51	W	0
ATOM	12146	0	HOH	59		45. 985	50.017	1.00 22.18	W	0
ATOM ATOM	12147 12148	0	НОН НОН	60		70. 566	0.317	1.00 32.17	W	0
ATOM	12148	0	нон НОН	61 62		69. 597 79. 521	25. 094 14. 538	1. 00 13. 27 1. 00 17. 25	ω W	0
ATOM	12149	0	HOH	63		86. 907	14. 556 16. 122	1.00 17.25	W W	0 0
ATOM	12151	ŏ	НОН	64		54. 337	14. 938	1.00 22.27	Ÿ	0

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										(Continued)
					FIC	G. 4-	249			(Continued)
45014	10150	^	*****	25	05 544	04 450	01 700	1 00 00 07		
ATOM	12152	0	НОН	65 66	37. 711	84. 458	31. 782	1.00 38.65	W	0
ATOM	12153	0	НОН НОН	66	41.832	62. 441 63. 214	48. 190 39. 402	1.00 23.50 1.00 20.39	W	0
ATOM ATOM	12154 12155	0	ноп НОН	67 68	56. 514 48. 166	60. 456	42. 122	1.00 20.39	W	0 0
ATOM	12156	Ö	НОН	69	52. 076	51.584	45. 757	1.00 37.33	W	0
ATOM	12157	0	НОН	70	47. 607	61.634	15. 612	1.00 22.02	Ÿ	0
ATOM	12158	ő	НОН	71	39. 108	76. 636	34. 882	1.00 24.21	Ÿ	0
ATOM	12159	ŏ	НОН	72	62. 894	85. 163	44.724	1.00 38.05	Ÿ	ŏ
ATOM	12160	Ŏ	НОН	73	49. 937	51. 963	48.658	1.00 25.50	W	Ö
ATOM	12161	Ö	НОН	74	32. 972	63. 405	9.645	1.00 31.16	W	Ö
ATOM	12162	Ŏ	НОН	75	76. 481	50. 940	55. 523	1.00 8.02	W	ŏ
ATOM	12163	0	HOH	76	54. 751	68.666	-3.038	1.00 19.33	Ŵ	Ö
ATOM	12164	0	HOH	77	69. 797	76.851	37.550	1.00 38.44	W	0
ATOM	12165	0	HOH	78	60. 195	69. 793	56.043	1.00 27.75	W	0
ATOM	12166	0	HOH	79	68. 721	77. 775	28.423	1.00 14.61	W	0
ATOM	12167	0	НОН	80	76.538	41.044	29.727	1.00 24.17	W	0
ATOM	12168	0	HOH	81	27. 643	63.804	39. 245	1.00 20.70	₩	0
ATOM	12169	0	НОН	82	42.573	57. 621	42.066	1.00 19.56	W	0
ATOM	12170	0	НОН	83	51. 219	56. 139	24. 829	1.00 41.31	W	0
ATOM	12171	0	HOH	84	64. 281	54. 295	25. 797	1.00 15.83	W	0
ATOM	12172	0	НОН	85	48. 093	54. 052	46. 307	1.00 38.41	W	0
ATOM	12173	0	HOH	86	37.006	52. 225	21. 202	1.00 23.83	. <b>W</b>	0
ATOM	12174	0	НОН	87	44.149	74. 948	5.314	1.00 17.55	W	0
ATOM ATOM	12175	0	НОН	88 80	72.912	75.091	28. 633	1.00 25.98	.W	0
ATOM	12176 12177	0	НОН НОН	89 90	52. 329	67. 860	33. 481	1.00 8.31	W	0
ATOM	12178	0	НОН	90 91	66. 266 59. 283	74. 773 77. 076	42. 238 9. 072	1.00 16.00 1.00 41.29	W	0
ATOM	12179	0	НОН	92	77. 526	46. 454	20. 254	1.00 41.29	W W	0
ATOM	12180	ő	НОН	93	59. 751	56. 673	29. 191	1.00 34.31	W	0 0
ATOM	12181	Ŏ	НОН	94	43. 531	63. 248	14. 122	1.00 22.64	Ÿ	0
ATOM	12182	ŏ	НОН	95	56. 677	73. 257	-8. 550	1.00 18.65	W	0
ATOM	12183	Ŏ	НОН	96	64. 366	82.016	33. 202	1.00 24.81	Ÿ	ŏ
ATOM	12184	Ō	НОН	97	58. 839	62.776	26. 537	1.00 11.00	Ÿ	Ö
ATOM	12185	0	HOH	98	52.478	72.152	3.092	1.00 13.58	Ÿ	Ö
ATOM	12186	0	HOH	99	59.860	59.389	29.429	1.00 20.06	W	Ö
ATOM	12187	0	HOH	100	64.047	73.184	44.557	1.00 15.66	W	0
ATOM	12188	0	HOH	101	44. 369	74.978	38.087	1.00 11.11	W	0
ATOM	12189	0	HOH	102	61.861	50.833	14.510	1.00 31.09	W	0
ATOM	12190	0	НОН	103	40. 708	73.940	22. 137	1.00 13.81	W	0
ATOM	12191	0	НОН	104	51.853	81.601	16. 339	1.00 16.73	W	0
ATOM	12192	0	НОН	105	59. 699	55. 348	63. 144	1.00 20.67	W	0
ATOM	12193	0	HOH	106	45. 186	81.560	8. 416	1.00 13.89	W	0
MOTA	12194	0	HOH	107	37.516	59.183	48. 946	1.00 20.72	₩	0
ATOM ATOM	12195 12196	0	НОН НОН	108	22.032	56. 444	27. 934	1.00 30.26	W	0
ATOM	12190	0	HOH	109 110	65. 773	63. 945	59. 504	1.00 15.82	W	0
ATOM	12198	0	НОН	111	45. 931 29. 602	73. 798 40. 898	1.832 24.033	1.00 25.56	ω γ	0
ATOM	12199	0	HOH	112	19. 080	57. 313	24. 033 26. 663	1.00 25.93 1.00 20.07	W	0
ATOM	12200	Ŏ	НОН	113	61.355	50. 296	11.653	1.00 20.07	W	0
		-			01.000	00. 200	11.000	1.00 20.73	11	U



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										(Conf	tinued)
					FIG	3. 4 -	250			(0011	oriza da
ATOM	19901	Λ	HOH	114	41 401	E0 C01	0.047	1 00 49 01	W	Λ	
ATOM	12201	0	HOH	114	41.491	58.601	0.047	1.00 42.91	W	0	
ATOM	12202	0	HOH	115	64. 362	64. 567	16. 259	1.00 24.97	W	0	
ATOM	12203	0	HOH	116	43. 928	76. 242	2. 332	1.00 21.69	W	0	
ATOM	12204	0	HOH	117	80. 703	69. 349	43. 827	1.00 28.64	W	0	
ATOM	12205	0	НОН	118	81.671	48. 368	20. 456	1.00 15.16	W	0	
ATOM	12206	0	НОН	119	59.413	71.127	54.004	1.00 22.01	W	0	
ATOM	12207	0	НОН	120	27. 474	69. 426	47. 288	1.00 26.74	W	0	
ATOM	12208	0	НОН	121	69.871	60. 279	33. 380	1.00 13.47	W	0	
ATOM	12209	0	НОН	122	67.879	38. 425	47. 297	1.00 25.68	W	0	
ATOM	12210	0	HOH	123	41.866	62. 152	36. 306	1.00 27.91	W	0	
ATOM	12211	0	HOH	124	82. 055	50. 923	20.718	1.00 23.09	W	0	
ATOM	12212	0	HOH	125	38. 821	82.651	33. 998	1.00 14.04	₩	0	
ATOM	12213	0	НОН НОН	126	64. 420 60. 713	42. 195	31.710	1.00 28.88	W	0	
ATOM	12214	0		127	63. 095	36. 262 38. 041	43. 885	1.00 22.95	W	0	
ATOM	12215	0	НОН	128			44. 744	1.00 26.42	W	0	•
ATOM	12216	0	HOH	129	36.718	65. 633	50. 633	1.00 38.12	W	0	
ATOM	12217	0	HOH	130	55. 575	80.086	20. 196	1.00 26.23	W	0	•
ATOM	12218 12219	0	НОН	131	41.981	65. 129	15. 577	1.00 23.62	W	0	
ATOM ATOM	12219	0	НОН НОН	132	48. 067	75. 632	53. 563	1.00 36.38	W	0	
ATOM	12221	0	НОН	133 134	75. 617 73. 522	59. 792 67. 486	32. 116	1.00 35.58 1.00 21.07	W	0	
ATOM	12222	0	НОН	134	65. 965	81.671	30. 484		W	0	
ATOM	12223	0	HOH	136	41.663	53. 300	30. 091 13. 574	1.00 41.74 1.00 39.95	W	0	
ATOM	12224	0	НОН	137	42.885	39. 029	29. 960	1.00 39.95	W	0	
ATOM	12225	0	НОН	138	67. 606	56. 683	24. 253	1.00 29.57	W	0	
ATOM	12226	0	НОН	139	138. 150	54. 591	37. 133	1.00 37.19	₩	0	
ATOM	12227	0	НОН	140	76. 640	48. 505	51.547	1.00 19.00	W	0	
ATOM	12228	0	НОН	141	105. 346	35. 319	45. 478	1.00 22.87	W	0	
ATOM	12229	ő	НОН	142	103. 340	33. 058	43. 478	1.00 0.28	W W	0	
ATOM	12230	ő	НОН	143	101. 384	50. 291	32. 321	1.00 17.18	W	0 0	
ATOM	12231	0	HOH	144	83. 691	56. 732	33. 886	1.00 12.25	W	0	
ATOM	12232	0	НОН	145	96. 721	59. 108	34. 335	1.00 16.52	W	0	
ATOM	12233	0	HOH	146	122. 411	66. 436	57. 099	1.00 14.59	W	0	
ATOM	12234	0	HOH	147	107. 303	38.674	48. 678	1.00 13.33	W	0	
ATOM	12235	ő	НОН	148	102. 207	54. 174	15. 770	1.00 12.12	Ÿ	0	
ATOM	12236	ő	НОН	149	104. 534	49. 338	27. 730	1.00 13.02	Ÿ	0	
ATOM	12237	ŏ	НОН	150	113. 995	67. 497	30. 740	1.00 26.00	Ÿ	0	
ATOM	12238	ŏ	НОН	151	115. 903	54. 147	45. 005	1.00 20.00	Ÿ	0	
ATOM	12239	Ő	НОН	152	114. 104	55. 650	9. 401	1.00 27.03	w	0	
ATOM	12240	ŏ	НОН	153	86. 360	55.414	40. 305	1.00 21.03	w	0	
ATOM	12241	ŏ	НОН	154	97. 554	40. 670	45. 200	1.00 14.02	"W	0	
ATOM	12242	Ŏ	НОН	155	119.087	37. 761	27. 531	1.00 31.02	Ÿ	Ö	
ATOM	12243	Ö.	НОН	156	87. 809	62. 914	36. 962	1.00 26.29	"W	0	
ATOM	12244	Ö	НОН	157	83. 356	65. 229	44. 012	1.00 20.23	Ÿ	0	
ATOM	12245	ŏ	НОН	158	98. 650	46. 435	54. 377	1.00 26.11	Ÿ	0	
ATOM	12246	Ŏ	НОН	159	99. 982	40. 104	43. 504	1.00 11.71	Ÿ	ŏ	
ATOM	12247	Ŏ	НОН	160	122.550	42. 243	44. 636	1.00 14.84	Ÿ	ŏ	
ATOM	12248	Ö	НОН	161	101.404	56.669	35. 498	1.00 35.54	Ÿ	ŏ	
<b>ATOM</b>	12249	0	HOH	162	88. 481	51.896	31. 163	1.00 12.64	Ÿ	Ŏ	

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(Continued)

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					FIC	G. 4-	251			(00
ATOM	12250	0	НОН	163	95. 169	58. 602	25.005	1.00 10.78	W	0
ATOM	12251	0	HOH	164	115. 235	34.630	45. 444	1.00 26.24	W	0
ATOM	12252	0	НОН	165	106. 826	53.003	55. 571	1.00 20.62	W	0
ATOM	12253	0	НОН	166	84. 875	59. 299	19.482	1.00 36.24	W	0
ATOM	12254	0	НОН	167	113. 139	50.670	46. 942	1.00 20.56	W	0
ATOM	12255	0	HOH	168	95. 042	48. 091	37. 270	1.00 21.34	W	0
ATOM	12256	0	HOH	169	76. 879	72. 537	31.569	1.00 23.37	W	0
ATOM	12257	0	НОН	170	114. 148	58. 106	48.086	1.00 18.43	W	0
ATOM	12258	0	HOH	171	89. 134	33. 853	32.584	1.00 22.93	₩	0
ATOM	12259 12260	0	НОН	172	104. 484	32.367	28. 628	1.00 23.01	W	0
ATOM ATOM	12261	0 0	НОН НОН	173 174	97. 990 108. 093	56. 523	56.950	1.00 35.07	W	0
ATOM	12262	0	НОН	175	95. 968	59. 050 47. 759	11.178	1.00 23.37	W	0
ATOM	12263	0	НОН	176	93. 653	58. 234	51.786 55.683	1.00 19.27 1.00 19.54	W	0
ATOM	12264	0	НОН	177	117. 454	64.613	44. 832	1.00 19.54	W W	0
ATOM	12265	ő	НОН	178	96. 322	67. 790	27. 707	1.00 29.36	Ÿ	0
ATOM	12266	Ő	НОН	179	80. 831	40. 760	23. 388	1.00 28.01	Ÿ	0
ATOM	12267	Ŏ	НОН	180	109. 521	38. 188	50. 278	1.00 16.30	W	ő
ATOM	12268	Ŏ	НОН	181	88. 081	40. 289	29.465	1.00 7.47	Ÿ	ő
<b>ATOM</b>	12269	0	НОН	182	112. 135	42. 102	29.409	1.00 28.14	W	ŏ
<b>ATOM</b>	12270	0	НОН	183	110.546	33. 279	45.877	1.00 22.55	Ÿ	ŏ
ATOM	12271	0	НОН	184	101.361	45.858	44.078	1.00 28.83	Ÿ	ŏ
ATOM	12272	0	HOH	185	126.633	38.023	29.778	1.00 31.97	W	Ŏ
ATOM	12273	0	HOH	186	122. 283	37. 257	34.566	1.00 18.77	W	Õ
ATOM	12274	0	HOH	187	99. 753	38. 623	40.032	1.00 18.28	W	0
ATOM	12275	0	HOH	188	122. 547	56. 954	36.341	1.00 20.05	W	0
ATOM	12276	0	НОН	189	68. 079	78. 219	33.025	1.00 38.49	W	0
ATOM	12277	0	НОН	190	134. 519	46.667	45.989	1.00 34.45	W	0
ATOM	12278	0	НОН	191	110. 945	39. 354	35.865	1.00 10.27	W	0
ATOM	12279	0	НОН	192	118. 982	51.843	57. 881	1.00 13.62	W	0
ATOM	12280	0	НОН	193	123. 824	35. 631	32. 830	1.00 19.19	W	0
ATOM	12281	0	HOH	194	100. 524	45. 123	38. 393	1.00 26.68	W	0
ATOM	12282	0	HOH	195	122. 815	60.696	63. 937	1.00 24.15	W	0
ATOM ATOM	12283 12284	0 0	HOH HOH	196 197	96. 208	59.856	31.652	1.00 12.71	W	0
ATOM	12285	0	HOH	198	80. 023 109. 915	56. 246 41. 219	54. 587 37. 675	1.00 10.61	W	0
ATOM	12286	0	HOH	199	96. 990	75. 649	27. 926	1.00 19.28 1.00 9.03	W	0
ATOM	12287	Ŏ	НОН	200	103. 494	44. 373	34. 046	1.00 8.20	W	0
ATOM	12288	Ö	НОН	201	97. 045	44. 873	53. 124	1.00 15.97	Ÿ	Ö
ATOM	12289	Ŏ	НОН	202	109. 135	58. 341	13. 499	1.00 22.83	Ÿ	Ő
ATOM	12290	Ö	НОН	203	96. 465	39. 089	47. 689	1.00 12.68	W	ő
ATOM	12291	0	НОН	204	99.669	54. 200	16.885	1.00 13.83	Ÿ	ŏ
ATOM	12292	0	НОН	205	85. 350	34. 351	33. 261	1.00 15.83	Ÿ	ŏ
ATOM	12293	0	HOH	206	106. 252	38. 178	46. 273	1.00 17.78	Ÿ	ŏ
ATOM	12294	0	HOH	207	102.838	63. 592	15.944	1.00 23.96	Ÿ	Ŏ
ATOM	12295	0	HOH	208	114. 173	52.027	44. 587	1.00 12.16	W	Ō
ATOM	12296	0	HOH	209	114. 209	49.450	36.803	1.00 19.70	W	0
ATOM	12297	0	НОН	210	78. 079	55. 141	59.990	1.00 33.63	W	0
ATOM	12298	0	НОН	211	95.004	41.032	14.678	1.00 29.66	W	0

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					F I G. 4 - 2 5 2		
ATOM	12299	0	НОН	212	113.170 36.816 43.347 1.00 21.90	W	0
ATOM	12300	0	НОН	213	77.770 71.277 45.572 1.00 31.73	W	0
ATOM	12301	0	HOH	214	128.636 66.746 61.783 1.00 37.87	W	0
ATOM	12302	0	HOH	215	128.566 42.261 18.644 1.00 26.65	W	0
ATOM	12303	0	НОН	216	135. 349 43. 830 34. 280 1. 00 24. 69	W	0
ATOM	12304	0	НОН	217	85.640 67.686 27.706 1.00 32.33	W	0
ATOM	12305	0	НОН	218	93.669 46.427 45.506 1.00 24.39	W	0
ATOM	12306	0	НОН	219	117. 990 67. 819 59. 317 1. 00 20. 28	W	0
ATOM	12307	0	НОН	220	79. 954 55. 009 62. 309 1. 00 19. 13	W	0
ATOM	12308	0	НОН	221	117. 228 62. 083 29. 483 1. 00 29. 50	W	0
ATOM	12309	0	НОН	222	105.505 51.938 31.912 1.00 35.19	W	0
ATOM ATOM	12310 12311	0	НОН НОН	$\begin{array}{c} 223 \\ 224 \end{array}$	106. 835 57. 215 14. 677 1. 00 21. 77 107. 489 60. 380 64. 395 1. 00 24. 53	W	0
ATOM	12311	0	НОН	$\begin{array}{c} 224 \\ 225 \end{array}$	107. 489 60. 380 64. 395 1. 00 24. 53 79. 753 74. 355 37. 799 1. 00 35. 35	W	0
ATOM	12312	0	НОН	226	116. 807 64. 679 29. 466 1. 00 24. 83	W	0 0
ATOM	12314	0	НОН	227	87. 239 52. 355 64. 706 1. 00 21. 19	W	0
ATOM	12315	0	НОН	228	81.916 67.988 41.878 1.00 14.54	W	0
ATOM	12316	Ŏ	НОН	229	106. 295 62. 226 36. 826 1. 00 26. 06	Ÿ	0
ATOM	12317	ŏ	НОН	230	78. 057 49. 553 53. 991 1. 00 15. 40	W	ŏ
ATOM	12318	Ŏ	НОН	231	99. 797 47. 673 22. 572 1. 00 18. 00	W	Ö
ATOM	12319	0	НОН	232	80. 925 62. 495 37. 326 1. 00 9. 28	W	ŏ
ATOM	12320	0	HOH	233	93. 378 45. 857 52. 934 1. 00 12. 13	Ŵ	Ö
ATOM	12321	0	HOH	234	132.069 46.877 33.339 1.00 20.97	W	0
ATOM	12322	0	HOH	235	93. 916 62. 211 25. 521 1. 00 13. 10	W	0
ATOM	12323	0	НОН	236	93. 249 60. 882 37. 895 1. 00 26. 19	W	0
ATOM	12324	0	НОН	237	100.380 52.169 18.636 1.00 7.98	W	0
ATOM	12325	0	НОН	238	82.096 55.169 32.059 1.00 10.45	W	0
ATOM	12326	0	HOH	239	94. 471 48. 635 53. 699 1. 00 13. 21	W	0
ATOM	12327	0	HOH	240	87. 009 55. 227 64. 894 1. 00 24. 88	W	0
ATOM	12328	0	НОН	241	95. 857 52. 760 15. 499 1. 00 29. 83	W	0
ATOM	12329 12330	0	НОН	242	117. 688 49. 829 33. 274 1. 00 13. 15	W	0
ATOM ATOM	12331	0	НОН НОН	243 244	103. 675 56. 528 15. 602 1. 00 19. 17 99. 571 37. 563 42. 732 1. 00 22. 69	₩	0
ATOM	12332	0	нон НОН	244 245		W	0
ATOM	12333	0	HOH	246	100. 413 48. 087 60. 147 1. 00 23. 84 117. 307 73. 448 16. 262 1. 00 29. 45	W	0
ATOM	12334	0	НОН	247	124. 287 57. 265 34. 284 1. 00 15. 90	W W	0 0
ATOM	12335	ŏ	НОН	248	124.770 56.884 15.714 1.00 26.61	"Y	0
ATOM	12336	ŏ	НОН	249	133.182 57.356 30.667 1.00 8.25	"W	0
ATOM	12337	Ŏ	НОН	250	106. 948 46. 114 47. 228 1. 00 18. 40	Ÿ	0
ATOM	12338	0	НОН	251	101.409 54.086 55.370 1.00 24.76	Ÿ	Ö
ATOM	12339	0	HOH	252	116.022 62.795 46.555 1.00 17.19	W	Ö
ATOM	12340	0	HOH	253	95.637 65.687 28.739 1.00 22.07	Ÿ	Ö
ATOM	12341	0	HOH	254	89.440 32.347 36.665 1.00 21.89	W	Ō
ATOM	12342	0	HOH	255	86.628 29.295 53.611 1.00 28.08	W	0
ATOM	12343	0	НОН	256	102.111 48.926 69.771 1.00 28.02	W	0
ATOM	12344	0	HOH	257	117. 835 65. 790 61. 089 1. 00 30. 23	W	0
ATOM	12345	0	HOH		105. 286 61. 859 63. 757 1. 00 33. 92	W	0
ATOM	12346	0	HOH	259	86.743 64.218 34.930 1.00 28.91	W	0
ATOM	12347	0	НОН	260	105.249 47.160 40.635 1.00 20.28	W	0

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ATOM	12348	0	НОН	261	125.748	77. 301	50. 793	1.00 32.51	W	0
ATOM	12349	0	НОН	262	73.839	74. 279	32. 315	1.00 30.75	W	0
ATOM	12350	0	НОН	263	92.355	54. 248	49. 336	1.00 32.87	W	0
ATOM	12351	0	HOH	264	102. 237	61.200	14.237	1.00 31.77	W	0
ATOM	12352	0	HOH	265	111.596	65.302	59.180	1.00 14.35	W	0
ATOM	12353	0	HOH	266	76. 203	36.588	32.586	1.00 25.41	W	0
ATOM	12354	0	HOH	267	95.406	54.983	52.304	1.00 31.62	W	0
ATOM	12355	0	HOH	268	71.413	36.734	46. 233	1.00 28.42	W	0
ATOM	12356	0	HOH	269	127. 938	49.749	55.356	1.00 31.01	W	0
ATOM	12357	0	HOH	270	122. 216	58.021	31.710	1.00 35.14	W	0
ATOM	12358	0	HOH	271	94.659	59.753	40. 284	1.00 27.37	W	0
ATOM	12359	0	HOH	272	77. 118	34. 975	51.599	1.00 37.45	W	0
ATOM	12360	0	HOH	273	112.752	32.790	41.771	1.00 30.32	W	0
TER	12361		HOH	273					W	
END										